



**Department of
Agriculture**

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
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INSPECTION FORM
I. FACILITY INFORMATION

Name of Inspector: Christine Pence
Inspection Start Time: 12:00 p.m.

Date of Inspection: May 23, 2012
Inspection End Time: 1:30 p.m.

Purpose of Inspection:

- ☒ 1st Routine
☐ 2nd Routine
☐ Partial

- ☐ Complaint
☐ Enforcement
☐ Other

Facility:

Rule 901:10-2-01(C)(1)

Neal Kremer

(formerly named Stateline Agri, Inc.)

9159 State Route 118

Ansonia, OH 45303

937-547-1006

Owner/Operator:

Rule 901:10-2-01(C)(1)

Neal Kremer

9159 State Route 118

Ansonia, OH 45303

Office: 937-547-9633

Cell: 937-459-7740

Fax: 937-547-9884

e-mail: nealkremer@yahoo.com and neal@kremerfamilyfarms.com

Contact Person:

Neal Kremer

Cell: 937-459-7740

Kyle Stegall, Operations Manager

Cell: 937-417-2933

Kyle's Personal e-mail: kcsjrsl@yahoo.com

PERMIT NUMBER: 19-122-PTO-002

Expiration Date: November 2, 2016

Livestock Manager Name: N/A

Rule 901:10-1-06

Biosecurity Information: No exposure to swine w/in 48 hours. Boots worn around the facility.

Date of Expiration of Certificate:

Rule 901:10-5-02(B)

Inspector followed facility or industry biosecurity plan ☒ Yes ☐ No ☐ N/A
-- whichever is more stringent

II. FACILITY OPERATION INFORMATION

Number and Type of Animals

Rule 901:10-2-01(C)(2) and 901:10-1-07(A)(2)

Animal Type	Existing Number of Animals (leave blank if new)	Maximum Number of Animals (for new or expanding)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)		
Swine Over 55 pounds	521	4400
Swine Under 55 pounds		
Horses		
Sheep or lambs		
Turkeys		
Laying hens		
Broilers		
Duck		
Pullets		
Others:		

During this inspection, the pigs that are currently on-site were being removed to market. There will be one more group of hogs stocked through Pork Champ then this facility is planning to convert to a wean-to-finish operation on dry feed only and will be contracted with another company.

*In 2009, this facility began contract feeding for Pork Champ LLC. Bill Ringler is the contact person with Pork Champ and visits this facility typically once per week. The feeding system was previously dry feed; however it is now liquid feed. An underground concrete tank was installed (17,000 gal. capacity) between barns 1 and 3. The feed mixing room (kitchen) is located in the west end of barn 1. Kyle was cautioned to ensure any spilled feed is cleaned up immediately.

Number of Employees: 1 full time and 1 part time.

Type of Feed System: liquid/dry

III. WATER SYSTEM

Water Supply Sources

Rule 901:10-2-08

- **Is there a well located at the facility?** ☒ Yes ☐ No ☐ N/A

There are 3 wells; 1 for hog barns; 1 for factory; 1 for residence. These wells are not plumbed together.

- **Is water treatment used:** ☐ Yes ☒ No ☐ N/A

If so, where does backflush water go?

Drinking Groundwater Sampling

- Are records of the groundwater sampling analysis properly recorded in the operation record? ☐ Yes ☒ No ☐ N/A

List the dates of the last samples taken.

Groundwater Sample Results

Date	Well	TCR	Nitrate
2/15/10	*O. Spigot	Neg	.14 ppm
4/14/11	*O. Spigot	Neg	.1 ppm
5/12/12	*O. Spigot	Neg	

* Outside office location.

The May 12, 2012 Nitrate results were not yet returned. Have these available at the next routine inspection in 2012.

Groundwater Monitoring

901:10-2-08(A)(4)(i)&(ii), 901:10-2-03(A)(2)(e)

- Are groundwater monitoring wells required? ☐ Yes ☒ No ☐ N/A

If yes, list results.

Agricultural Drainage Well

901:10-2-02(A)

- Is there indication of an agricultural drainage well (Class V well) on the property? ☐ Yes ☒ No ☐ N/A

If yes, is the agricultural drainage well likely to have runoff?

☐ Yes ☐ No ☒ N/A

Wastewater

901:10-2-08(A)(4)(d)

- Is there a sanitary permit for this facility? ☒ Yes ☐ No ☐ N/A
 - If yes, does the sanitary go to the manure storage and treatment facility? ☐ Yes ☒ No ☐ N/A
 - If yes, is it permitted to do so? ☐ Yes ☐ No ☒ N/A
- Is there proper storage and containment of pesticides, fertilizers and herbicides? ☒ Yes ☐ No ☐ N/A
- Is there proper storage and containment of cleaning solutions? ☒ Yes ☐ No ☐ N/A
- Is there proper storage and containment of vehicle fluids? ☒ Yes ☐ No ☐ N/A
- Is there proper storage and disposal of veterinary supplies? ☒ Yes ☐ No ☐ N/A
- Do any of the above go to the manure storage area? ☐ Yes ☒ No ☐ N/A

Rule 901:10-2-10(A)(4)(d)

IV. MANURE STORAGE AND TREATMENT FACILITIES

• **Type of Manure:**

Rule 901:10-2-10(A)

(Check all that apply)

☒ Liquid

☒ Solid

• **Annual manure analysis on File?**

Rules 901:10-2-10(C), 901:10-2-16(A)(1)(b)

☒ Yes

☐ No

☐ N/A

Manure Sample Results (liquid measured in #/1,000 g)

Type	Date	Moisture %	NH ₄ -N	Organic N	P ₂ O ₅	K ₂ O
W. Pond (agitated)	4/2/09	97.44	20.24	6.35	15.58	18.80
W. pond (agitated)	8/19/09	98.53	13.69	1.5	7.43	14.45
W. Pond (agitated)	8/19/09	98.74	11.56	1.59	5.36	14.16
W. Pond (agitated)	8/2/10	99.09	14.4	.25	1.18	13.39
W. Pond (agitated)	4/7/11	97.56	21.86	3.56	15.34	17.37
W. Pond (agitated)	10/16/11	97.20	22.25	8.87	20.71	2.47
W. Pond (agitated)	10/17/11	96.93	24.03	7.84	19.34	24.71
W. Pond (agitated)	10/30/11	97.29	25.65	4.22	18.98	24.3
W. Pond (agitated)	11/9/11	96.72	27.28	4.86	21.48	24.12
W. Pond (agitated)	11/9/11	96.86	25.18	3.07	18.95	24.67

In 2009-2011, no analysis of the mortality compost was done, as none was land applied; the material was hauled to a landfill.

Manure tests will be due prior to removal this summer.

• **Type of manure storage or treatment facility:**

Rule 901:10-2-04

(Check all that apply)

☒ Fabricated structure

☒ Manure storage pond

☐ Manure treatment lagoon

☐ Combination

Fabricated Structure

• **Type of fabricated structure:**

Rule 901:10-2-05

(Check all that apply)

☐ Stacking pad/bunker/etc

☐ Concrete block or stave pit

☐ Deep pit

☐ Above ground tank (metal/concrete/other)

☐ High-rise

☐ Manure storage barn (for belt-battery, etc)

☒ Other - Shallow pit

☐ Compacted earthen floor concrete pit

☒ Other - mortality disposal structure with 4 bays* (see page 12 of this report for details)

• **Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff?**

Rules 901:10-2-05, 901:10-2-08(A)(4)

☒ Yes

☐ No

☐ N/A

• **Are records maintained on storage capacity or manure volume?**

Rule 901:10-2-16(A)(1)(a)(iii)

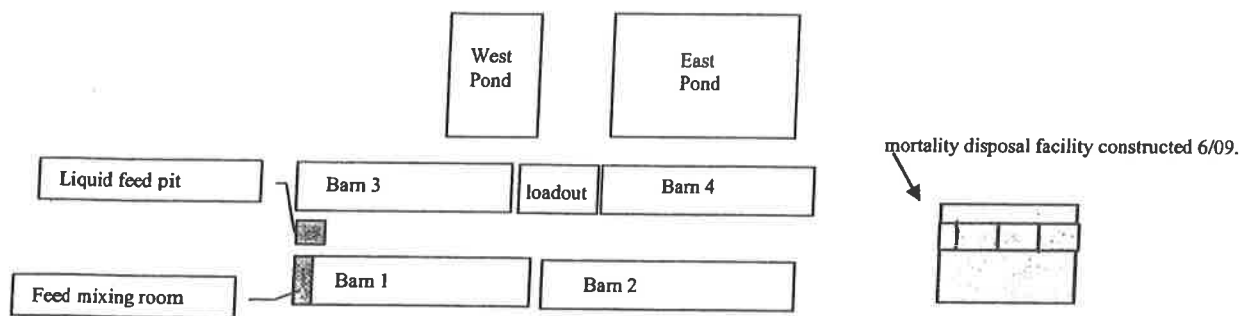
☒ Yes

☐ No

☐ N/A

Structure	Date	Maximum Operating Level	Current Manure Level
Barn 1	5/17/12	18 inches	4 inches
Barn 2	5/17/12	18 inches	4 inches
Barn 3	5/17/12	18 inches	6 inches
Barn 4	5/17/12	18 inches	7 inches

A new mortality disposal structure was completed in June 2009 and is currently in use. In barns 3 & 4, the pits are 24" deep; however, the maximum operating level is 18 inches. Barns 1 & 2 pits are 18" deep with 12" maximum operating level. Depths are recorded weekly in the operating record. A customized form to record weekly inspections of Barns 1-4, mortality disposal facility and ponds 1 and 2 is used. Barns 1 & 2 have scrapers with a sump pit that are each run once daily. Barns 3 & 4 have pull plugs. Drawings below are not to scale, but show an approximate location with an ID for each structure.



- **Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?**
 Rule 901:10-2-08(A)(4)(c) & 901:10-2-16(A)(1)(a)(ii) ☒ Yes ☐ No ☐ N/A
- **Do the inspections match the frequency in the manure management plan?**
 Rules 901:10-2-08(A)(1) and 901:10-2-16(A)(1)(a)(ii) ☒ Yes ☐ No ☐ N/A
- **Are these regular inspections properly recorded in the operating record?**
 Rules 901:10-2-08(A)(4) and 901:10-2-16(A)(1) ☒ Yes ☐ No ☐ N/A

Manure Storage Pond or Manure Treatment Lagoon

- **Type of manure storage pond or manure treatment lagoon (and approximate dimensions)** Rule 901:10-2-06
 (Check all that apply)
☒ **Earthen manure storage pond** ☐ **Earthen manure treatment lagoon**
 (Explain number of ponds/lagoons, type of liner system installed (plastic, recompacted soil, in-situ soil, etc)) Estimated dimensions below.

West Pond measurement at MOL (1.5') -132' x 220' x 7'. East Pond meas. at MOL (1.5')-127' x 103' x 4'.

These dimensions were determined during an actual measurement on December 12, 2011 by Tom Menke and Neal Kremer. The measurements were verified by Christine Pence and Andy Ety on December 28, 2011. Based upon Menke's calculations of the ponds, it was determined that the west pond has a storage capacity of 1.23 million gallons at MOL and the east pond has a storage capacity of 693,000 gallons at MOL. Both ponds combined have around 240 days of storage. This differs from what was provided in the recently issued PTO and conflicts with what is required in the special provision #3 on the front page of this report and the PTO.

The following table was developed by Menke Consulting on December 29, 2011. Stake no. 1 (where the stake and ground meet) is the Maximum Operating Level stake at freeboard, which means there is no storage depth available and 0 volume remaining. An example of the stake number 5 observed in the west pond means 4 ft. of depth is available and 773,904 gallons of storage available, and so on. By counting stakes, you should then be able to write down the storage volume remaining for each pond. You'll have to interpolate the halfway point between the stakes to get the 6" (.5 ft.) in between stakes readings. The shaded area represents volume that has no stakes in place yet due to the fact that manure and/or solids need to be removed in order to install the gauges.

Storage Pond Capacity Chart

West Pond Capacity

Stake no. from top	Depth available, ft.	Volume remaining, gallons
1 (MOI)	0	
	0.5	107,511
2	1	211,050
	1.5	313,067
3	2	411,237
	2.5	506,352
4	3	598,473
	3.5	687,843
5	4	773,804
	4.5	857,298
6	5	937,886
	5.5	1,015,051
7	6	1,089,092
	6.5	1,163,052
8	7	1,232,711
	7.5	1,298,770
9	8	1,364,249
	8.5	1,426,188
10	9	1,485,627

East Pond Capacity

Stake no. from top	Depth available, ft.	Volume remaining, gallons
1 (MOI)	0	
	0.5	103,073
2	1	203,391
	1.5	300,069
3	2	395,901
	2.5	488,158
4	3	577,798
	3.5	664,047
5	4	749,345
	4.5	831,322
6	5	910,812
	5.5	987,848
7	6	1,062,462
	6.5	1,134,867
8	7	1,204,548
	7.5	1,272,304
9	8	1,337,355

- Is there twelve-inches of freeboard, plus the volume needed to contain the appropriate design storm, if the structure is subject to rainfall and runoff?
Rules 901:10-2-06(A)(2), 901:10-2-08(A)(4)(a), 901:10-2-16(A)(1)(a)(i)

☒ Yes ☐ No ☐ N/A

- Are records maintained on storage capacity or manure volume?
Rule 901:10-2-16(A)(1)(a)(iii) & 901:10-2-06(A)(8) & 901:10-2-08(A)(4)(c)

☒ Yes ☐ No ☐ N/A

Using the new chart Menke developed, it should not be difficult to understand and record current manure levels in each pond. The levels on May 23, 2012 were observed and documented by Christine Pence during this inspection. Measurements are read from where the bottom of the stake and the ground meet.

Date	Structure	Maximum Op. Level	Current Manure Level	Storage Remaining
5/17/12	West Pond	7 ft. or "0" top marker 1,232,711 gallons	4 th stake down	3" remaining
5/17/12	East Pond	4 ft. or "0" top marker 693,277 gallons	2 nd stake down +4"	1'4" remaining

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?
Rule 901:10-2-08(A)(4)(e) & 901:10-2-16(A)(1)(a)(ii)

☒ Yes ☐ No ☐ N/A

- Is there evidence in the operating record of weekly inspections of stormwater conveyances, diversion devices and devices channeling contaminated stormwater to the manure storage pond or manure treatment lagoon?
Rule 901:10-2-16(A)(1)(a)(iv)

☒ Yes ☐ No ☐ N/A

- Do the inspections match the frequency in the manure management plan?
Rules 901:10-2-08(A)(1)

☒ Yes ☐ No ☐ N/A

- Are these regular inspections properly recorded in the operating record?
Rules 901:10-2-08(A)(1)

☒ Yes ☐ No ☐ N/A

- Is the level indicator(s) conspicuously located and properly functioning in the manure storage pond or manure treatment lagoon?

☒ Yes

☐ No

☐ N/A

By no later than September 15, 2012, the existing stakes need to be better anchored into the bank, the inside embankments need to be graded around the stakes and additional stakes installed after further manure removal.

- **Is the vegetation near the manure storage pond or the manure treatment lagoon properly maintained?**

Rule 901:10-2-08(A)(4)(j) & (k)

☐ Yes

☒ No

☐ N/A

In 2011, the areas around the outer banks of each of the two ponds had been disturbed by excavation of manure solids and debris from the ponds and by preparing access ramps into the ponds. At the previous inspection, we discussed the need to get these areas cleaned up and the embankments restored to provide the necessary manure storage and you agreed to have this done. During this inspection, the embankments had been repaired; however the temporary detention area had not yet been regarded and no areas had been seeded. By no later than September 15, 2012, these areas shall be cleaned up, reseeded and vegetation established. In addition, the temporary detention area between the east manure pond and hog barn shall be regraded and the area restored to its original condition.

- **Are the maintenance inspections for stormwater conveyances, runoff diversion structures, devices channeling contaminated stormwater, etc. properly recorded in the operating record?**

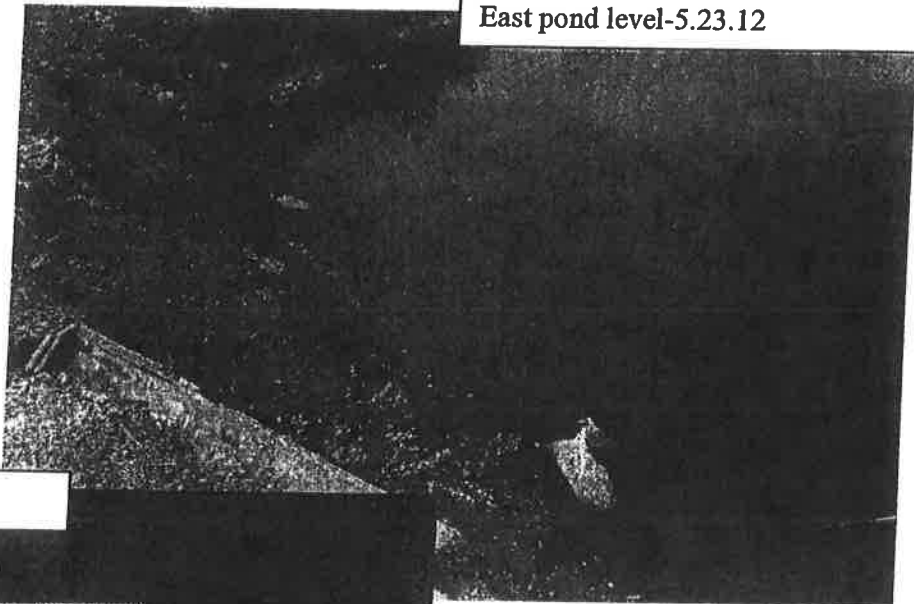
Rules 901:10-2-16(A)(1)(a)(v) & 901:10-2-08(A)(4)(i), (j)

☒ Yes

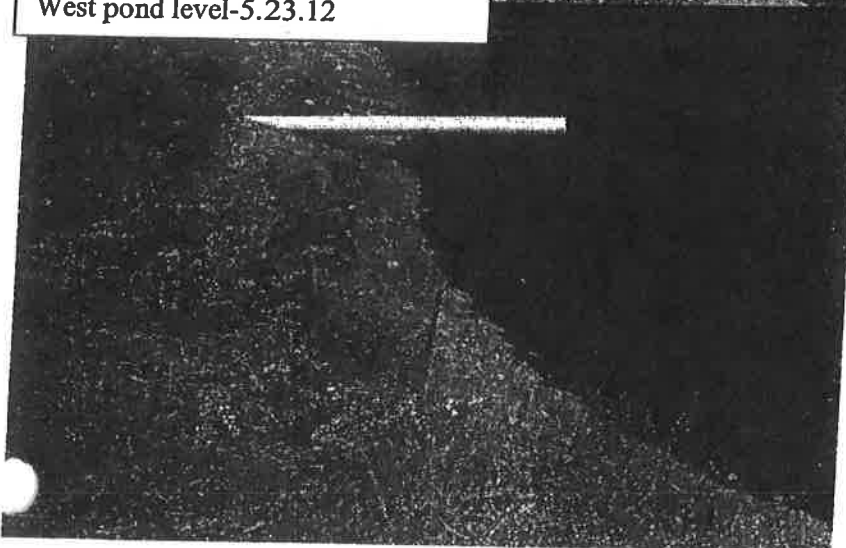
☐ No

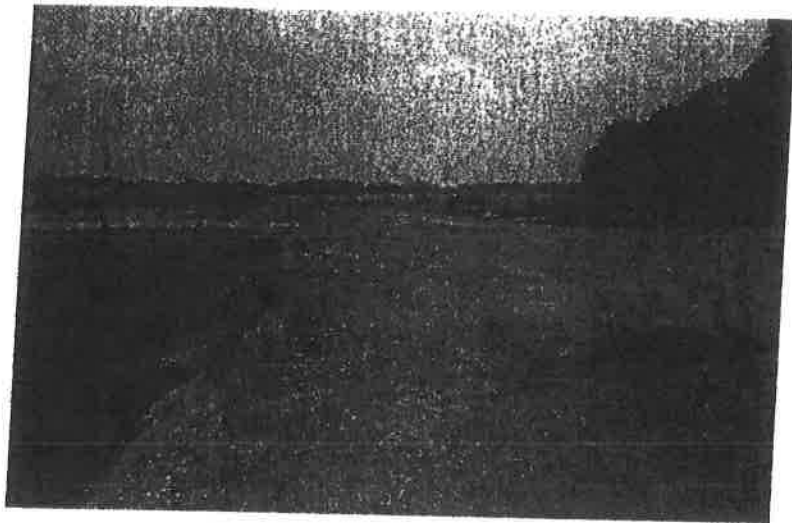
☐ N/A

East pond level-5.23.12



West pond level-5.23.12





Bare areas between ponds

V. MANURE MANAGEMENT

- Is the schedule for manure removal or manure residual removal outlined in the manure management plan?

Rules 901:10-2-08(A)(4)(g), 901:10-2-10(B), 901:10-2-16(A)(1)(c)&((c))

☒ Yes

☐ No

☐ N/A

- List

Date	Field	Amount (gal)
3/23/11	Transferred Wabash Farm	74,792
3/24/11	Transferred to Celina Farm	62,373
3/31/11	Phoenix Farms	385,135
4/30/11	Transferred Wabash Farm	144,562
5/10/11	Transferred Wabash Farm	123,760
5/31/11	Transferred Wabash Farm	86,493
6/2/11	Phoenix Farms	402,656
7/10/11	Campbell	662,550
7/12/11	Prasuhn	637,350
10/16-11/2/11	Prasuhn	1,313,634
11/1-11/2/11	Campbell	573,121
	Total through 11/2/11	4,466,426
March 2012	Labig #2	698,899 g

the

number of acres utilized for land application. (Include both land that is owned and land that is leased).

Rules 901:10-2-09(C), 901:10-2-16(A)(1)(c)(ii)

Acres owned	
Acres leased	
Other land	
Total acres	476 acres in MMP

- Was manure applied on snow-covered or frozen ground?
☐ Yes ☒ No ☐ N/A
- * If so, was the application site approved for application?
☐ Yes ☐ No ☒ N/A

Distribution and Utilization

- Is manure distributed through Distribution and Utilization methods?
☐ Yes ☒ No ☐ N/A
- Mortality compost is not land applied, the material is hauled to the landfill.
- If Distribution and Utilization method of manure removal was used, were Appendices A, B, F and the most recent manure analysis given to the recipient of the manure?
 Rule 901:10-2-16(A)(1)(c)(iv) & 901:10-2-11(A) ☐ Yes ☐ No ☒ N/A
 - Is the record for the Distribution and Utilization of manure maintained in the operation record?
 Rule 901:10-2-16(A)(1)(c)(i)(ii)(iii) & 901:10-2-11(B) ☐ Yes ☐ No ☒ N/A

Soil Characteristics

- Are all soil analysis properly recorded in the operating record for the last five years?
 Rule 901:10-2-16(A)(1)(c)(vi) & 901:10-2-13(D) ☒ Yes ☐ No ☐ N/A
 (The analysis records must be taken every three years).
 Soil tests were available for review for those fields that received manure in 2011 and in Spring, 2012.
- Are the soil samples representative of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less?
 Rule 901:10-2-13(C) ☒ Yes ☐ No ☐ N/A
- Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test?
 Rules 901:10-2-14(D)(E)(3) & 901:10-2-16(A)(1)(c)(xiii) ☒ Yes ☐ No ☐ N/A
 * If so, list those fields. Only one sample was 158 ppm (Mehlich III) for the Prasuhn Home Field 3C sample B taken in 2010.

Nutrient Budget

- Is commercial fertilizer used?
 Rules 901:10-2-09(C)(2) ☒ Yes ☐ No ☐ N/A
 * If so, list amount of commercial fertilizer used.
 Rule 901:10-2-16(A)(1)(c)(xiv)

See note below.

- Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record?
 Rule 901:10-2-16(A)(1)(c)(xiv) ☒ Yes ☐ No ☐ N/A

The land receiving manure is owned/operated by others for purposes of crop production; however, cropping records and fertilizer records must be maintained in the facility's Operating Records since the facility controls the manure application. During this inspection, the cropping records for those fields receiving manure in 2011 and so far in 2012 were available for review.

Cropping Schedules

- Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(viii)

☒ Yes

☐ No

☐ N/A

- Is the crop yield for each site properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(ix)

☒ Yes

☐ No

☐ N/A

- Is the actual crop yield for each site properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(xi)

☒ Yes

☐ No

☐ N/A

In 2012, there are at least 100 acres of wheat planned to receive manure.

Application Records

- If liquid manure is applied, are drain plugs being used?

Rule 901:10-2-16(A)(1)(c)(iv)

☐ Yes

☒ No

☐ N/A

Manure application records are maintained with Neal Kremer's Operating Records. Neal and/or Romie Kremer's name is on manure application form records. Kyle Stegall assists with the manure application records.

- If liquid manure is applied, are observations of subsurface drains properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(iii) & 901:10-2-14(G)(2)(a)[Winter only]

☒ Yes

☐ No

☐ N/A

- Has the equipment for land application been inspected, maintained and properly recorded in the operating record?

Rules 901:10-2-08(A)(2)

☒ Yes

☐ No

☐ N/A

- Are there records in the operating record on soil conditions at times of application, such as soil cracks?

Rule 901:10-2-16(A)(1)(c) (xvi)

☒ Yes

☐ No

☐ N/A

- Are application rates and nutrients applied in accordance with ODA rules for nitrogen and phosphorus?

Rule 901:10-2-14(D),(E)

☒ Yes

☐ No

☐ N/A

- Are liquid application rates based on the Available Water Capacity chart?

Rule 901:10-2-14(C)(1)(d)

☒ Yes

☐ No

☐ N/A

- Are there records of general weather conditions, temperature and rainfall 24 hours before and after manure applications?

Rules 901:10-2-12 and 901:10-2-16(A)(1)(c)(xvii)

☒ Yes

☐ No

☐ N/A

Manure application records are maintained along with Neal Kremer's Operating Records. Neal and/or Romie Kremer's name is on manure application form records. Kyle Stegall assists with the manure application records.

- **Are setbacks maintained and properly recorded in the operation record?**

Appendix A of Rule 901:10-2-14 and Rule 901:10-2-16(A)(1)(c)(vii)

☒ Yes ☐ No ☐ N/A

- **Is there evidence of documented use of vegetative cover to protect stream channels?**

Rules 901:10-2-14, including Appendix A and 901:10-2-16(A)(1)(c)(vii)

☒ Yes ☐ No ☐ N/A

VI. INSECT AND RODENT CONTROL

- **Is the insect and rodent control plan properly implemented by the owner or operator or manager?**

Rule 901:10-2-19 & 901:10-2-16(A)(1)(a)(viii))

☒ Yes ☐ No ☐ N/A

- **Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities?**

Rule 901:2-19(B)(3)(a)(i)

☒ Yes ☐ No ☐ N/A

- **Are these inspections properly recorded in the operating record?**

Rule 901:10-2-19(B)(3)(a)(iii)

☒ Yes ☐ No ☐ N/A

Comments: Weekly visual inspections are recorded by Kyle showing few to no insects. Currently using ODA's Form 8A and B weekly, with one form used for each barn. Bait stations are used around the inside and outside of the facility.

- **Is proper maintenance of the watering system properly recorded in the operating record?**

Rule 901:10-2-19(B)(3)(a)(ii)

☒ Yes ☐ No ☐ N/A

- **Are daily inspections of drinking water lines being made and recorded in the operating record?**

Rule 901:10-2-08(A)(4)(n) & 901:10-2-19(B)(3)(a)(ii)

☒ Yes ☐ No ☐ N/A

VII. MORTALITY MANAGEMENT

- **What type of mortality management does the facility have?**

Rule 901:10-2-15 and 901:10-2-16(A)(1)(f)(i)

There is a 4-bay concrete structure used to compost mortality before being transferred to a landfill.

- **Are there inspection records properly recorded in the operating record on mortality?**

Rules 901:10-2-15 and 901:10-2-16(A)(1)(f)(ii)

☒ Yes ☐ No ☐ N/A

- **Are Best Management Practices being utilized?**

☒ Yes ☐ No ☐ N/A

Carefully monitor the areas around the concrete structure to ensure possible leachate is contained and vegetation maintained.

VIII. OPERATING RECORD – GENERAL

- **Are all operating records up-to-date and available for review by the inspector?**
Rules 901:10-2-08 and 901:10-2-16 ☒ Yes ☐ No ☐ N/A

- **Is a copy of the RCC, PTI, PTO and/or NPDES permit with the operating record or located in the site office?**
Rule 901:10-2-01(B)(3) for PTI
901:10-2-07(E) for PTO & NPDES
901:10-1-07 for RCC as being part of PTO ☒ Yes ☐ No ☐ N/A

- **Have the operating records been retained by the owner or operator for a minimum of five years?**
Rule 901:10-2-16(A)(1) ☒ Yes ☐ No ☐ N/A

- **Since the last inspection, have any operational changes been made at the facility?**
Rule 901:10-1-09(F) ☐ Yes ☒ No ☐ N/A

As required by your permit provision, a minimum of 365 days of storage was to be achieved by removing the build-up of solids in the existing manure storage ponds. As progress was made last year on removing solids, additional solids remain in both ponds. Menke Consulting provided storage volume calculations on the ponds after solid's removal ceased last year and determined you have approximately 240 days of storage available, which is less than the requirement of your PTO. Based on ODA's inspection of the ponds after solid removal ceased last year, it was questionable whether 365 days could be achieved even if all solids were removed from the ponds. Therefore, ODA-DLEP will continue to monitor your manure storage levels until such time a determination is made that would either require additional solids removal and/or additional manure storage to be constructed, or ODA determines that the liquid storage volume you presently have is sufficient enough storage to properly manage your manure. At that time, ODA's decision may likely require additional permitting or a modification to the existing PTO.

IX. VISUAL INSPECTIONS AND OUTSIDE INFORMATION

Water Quality Impacts

- **Is there evidence of actual offsite discharge?**
Rules 901:10-2-08 and 901:10-2-16(A)(1)(a) ☐ Yes ☒ No ☐ N/A
- **Are there areas of concern for water quality impacts?**
Rules 901:10-2-08 and 901:10-2-16 ☒ Yes ☐ No ☐ N/A

In 2011, the areas around the outer banks of each of the two ponds had been disturbed by excavation of manure solids and debris from the ponds and by preparing access ramps into the ponds. At the previous inspection, we discussed the need to get these areas cleaned up and the embankments restored to provide the necessary manure storage and you agreed to have this done. During this inspection, the embankments had been repaired; however the temporary detention area had not yet been regarded and no areas had been seeded. By no later than September 15, 2012, these areas shall be cleaned up, reseeded and vegetation established. In addition, the temporary detention area between the east manure pond and hog barn shall be regraded and the area restored to its original condition.

- **Is the water well location maintained in a proper manner to avoid contamination?**
Rule 901:10-2-02(A)(1)&(2) ☒ Yes ☐ No ☐ N/A

- **Facility upkeep and general appearance:**
☐ Above average ☐ Below average ☒ Average ☐ Poor

Describe the upkeep and general appearance of the following:

	Above Average	Average	Below Average	Poor	Comments
Diversion Ditches					
Diversion Dikes					
Berns					
Embankments		X			
Pipe Runs					
Grassed Waterways					
Vegetative Cover		X			Disturbed areas need to be restored.
Contour Grass Strips					
Settling Basins					
Feed System	X				
Storage Areas	X				
Watering System	x				
Walkways or Walk Areas Inside Building					Records only
Walkways or Walk Areas Outside Building	X				Did not enter barns
Feed Alleys					
Chemicals					
Screens					
Ventilation Systems, i.e. Fans	X				
Others					

X. SUMMARY

- Were the results of the inspection discussed with the owner, operator, manager, representative or livestock manager?

☒ Yes

☐ No

☐ N/A

The results will be sent to either the owner, operator, manager, representative or livestock manager.

As required by your permit provision, a minimum of 365 days of storage was to be achieved by removing the build-up of solids in the existing manure storage ponds. As progress was made last year on removing solids, additional solids remain in both ponds. Menke Consulting provided storage volume calculations on the ponds after solid's removal ceased last year and determined you have approximately 240 days of storage available, which is less than the requirement of your PTO. Based on ODA's inspection of the ponds after solid removal ceased last year, it was questionable whether 365 days could be achieved even if all solids were removed from the ponds. Therefore, ODA-DLEP will continue to monitor your manure storage levels until such time a determination is made that would either require additional solids removal and/or additional manure storage to be constructed, or ODA determines that the liquid storage volume you presently have is sufficient enough storage to properly manage your manure. At that time, ODA's decision may likely require additional permitting or a modification to the existing PTO.

Required Actions:

- By no later than **September 15, 2012**, the existing stakes need to be better anchored into the bank, the inside embankments need to be graded around the stakes and additional stakes installed after further manure removal.
- By no later than **September 15, 2012**, the bare areas near the manure storage ponds shall be cleaned up, reseeded and vegetation established. In addition, the temporary detention area between the east manure pond and hog barn shall be regraded and the area restored to its original condition.
- Manure tests will be due prior to removal this summer.

- The May 12, 2012 Nitrate results were not yet returned. Have these available at the next routine inspection in 2012.

"I certify that this information was reviewed by the inspector and/or the owner, operator, manager, representative or livestock manager of the facility."

Signature of Owner, Operator, Manager,
Representative or Livestock Manager

Date

Christine Pence

5/23/2012

Signature of Inspector

Date

The draft inspection report was signed by Neal Kremer and Christine Pence. Also present for the inspection was Kyle Stegall.



Department of
Agriculture

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
A.B. Graham Building
8995 East Main Street, Reynoldsburg, OH 43068
Phone: 614-387-0470 • Fax: 614-728-6335
www.agri.ohio.gov • lepp@agri.ohio.gov

July 13, 2012

Neal Kremer
9159 State Route 118
Ansonia, OH 45303

RE: 1st of 2 inspections for 2012

Dear Mr. Kremer:

This letter is to document the Ohio Department of Agriculture, Division of Livestock Environmental Permitting's May 23, 2012 inspection of Neal Kremer hog facility. The facility that was inspected is located in Section 35 of Brown Township in Darke County, Stillwater River Watershed. Attached, please find a copy of the Ohio Department of Agriculture's written follow-up report.

The Permit To Operate was issued on November 2, 2011. The Mortality Management Plan and Insect and Rodent Control Plan (IRCP) are being implemented and inspections are recorded in the operating record. In 2012 through May 23, there are records of 698,899 gallons of manure removed, under your control, from the facility.

As required by your permit provision, a minimum of 365 days of storage was to be achieved by removing the build-up of solids in the existing manure storage ponds. As progress was made last year (2011) on removing solids, additional solids remain in both ponds. Menke Consulting provided storage volume calculations on the ponds after solid's removal ceased last year and determined you have approximately 240 days of storage available, which is less than the requirement of your PTO. Based on ODA's inspection of the ponds after solid removal ceased last year, it was questionable whether 365 days could be achieved even if all solids were removed from the ponds. Therefore, ODA-DLEP will continue to monitor your manure storage levels until such time a determination is made that would either require additional solids removal and/or additional manure storage to be constructed, or ODA determines that the liquid storage volume you presently have is sufficient enough storage to properly manage your manure. At that time, ODA's decision may likely require additional permitting or a modification to the existing PTO.

Listed below are required actions noted in the inspection report:

- By no later than **September 15, 2012**, the existing stakes need to be better anchored into the bank, the inside embankments need to be graded around the stakes and additional stakes installed after further manure removal.
- By no later than **September 15, 2012**, the bare areas near the manure storage ponds shall be cleaned up, reseeded and vegetation established. In addition, the temporary detention area between the east manure pond and hog barn shall be regraded and the area restored to its original condition.
- Manure tests will be due prior to removal this summer.
- The May 12, 2012 Nitrate results were not yet returned. Have these available at the next routine inspection in 2012.



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Should you have questions regarding this report, please feel free to call me at 614-778-4661 or via e-mail at cpence@agri.ohio.gov.

Sincerely,

Christine Pence

Christine Pence
Livestock Environmental Inspector

Enclosure

CC: Cathy Alexander, Ohio EPA
Greg McGlinch, Darke SWCD
ODNR-DSWR
Kevin Elder, DLEP Chief
Andy Ety, DLEP Engineer
Kelly McCloud, Assistant Attorney General



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**INSPECTION FORM
I. FACILITY INFORMATION**

Name of Inspector: Christine Pence
Inspection Start Time: 1:00 p.m.

Date of Inspection: May 24, 2012
Inspection End Time: 4:00 p.m.

Purpose of Inspection:

☒ 1st Routine

☐ 2nd Routine

☐ Partial

☐ Complaint

☐ Enforcement

☐ Other

Facility:

Rule 901:10-2-01(C)(1)

Wenning Poultry Farm
1596 Union City Road
Ft. Recovery, Ohio 45846

Owner/Operator:

Rule 901:10-2-01(C)(1)

Jim and Mary Wenning
1500 Union City Road
Ft. Recovery, Ohio 45846
419-375-4781
419-375-0018 (egg room)
marjimw@verizon.net

Contact Person (if not owner/operator):

PERMIT NUMBER: PTI and PTO# 54-024-PTO-001

Expiration Date: PTO-April 28, 2014

Permit Modification:

Date Effective:

Rule 901:10-1-01(FFF)

Major Operational Changes: Installation of a Nutrient Recovery Aeration Pit to improve performance of the existing anaerobic digester. This does not increase manure storage by 10%. Completed and in use during this inspection.

Date Effective: June 29, 2011

Appendix to Rule 901:10-1-09

Livestock Manager Name: James Wenning, Wenning Poultry

Rule 901:10-1-06

Certificate Number: #182

Date of Expiration of Certificate: December 31, 2013

Rule 901:10-5-02(B)

Biosecurity Information: 48 hour no prior exposure to birds. Did not inspect inside any poultry barns. Records inspection at home office. Drove around manure storage barns.

Inspector followed facility or industry biosecurity plan ☒ Yes ☐ No ☐ N/A

-- whichever is more stringent

II. FACILITY OPERATION INFORMATION

Number and Type of Animals

Rule 901:10-2-01(C)(2) and 901:10-1-07(A)(2)

Animal Type	Existing Number of Animals (leave blank if new)	Maximum Number of Animals (for new or expanding)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)		
Swine Over 55 pounds		
Swine Under 55 pounds		
Horses		
Sheep or lambs		
Turkeys		
Laying hens	919,583	1,241,308
Broilers		
Duck		
Pullets	122,840	125,000
Others:		

PTI and PTO issued on April 28, 2009 to include construction of a new Pullet barn on the west side of Barger Road. The first group of pullets were stocked on October 2, 2009.

A new well was installed at the pullet site. The pullet barn is belt battery, with manure conveyed to the rear of the barn, then transferred to the manure storage barn at the main facility.

At the main layer facility

- Buildings 1 through 4 will maintain a maximum design capacity of 102,000 laying hens each, until the remodeling of these barns is complete to house 174,327 birds each.
- Building 5 will maintain a maximum design capacity of 150,000 laying hens; no additional laying hens may be housed in building 5.
- Barn 6 will have a total maximum design capacity of 394,000 laying hens, with 98,000-100,000 housed in each "section".
- The total design capacity of this layer facility is 1,241,308 and the new pullet barn has a total design capacity of 125,000 birds.

Number of Employees: 10

Type of Feed System: Dry

III. WATER SYSTEM

Water Supply Sources

Rule 901:10-2-08

- Is there a well located at the facility? ☒ Yes ☐ No ☐ N/A
How Many: 3
- Is water treatment used: ☒ Yes ☐ No ☐ N/A

If so, where does backflush water go? To a ground sand leach bed (2 ft. of sand base), then to tile. One backflush has been changed to flow across top of vegetation.

Drinking Groundwater Sampling

- Are records of the groundwater sampling analysis properly recorded in the operation record? ☒ Yes ☐ No ☐ N/A

List the dates of the last samples taken.

Groundwater Sample Results

Date	Well	Nitrate	TCR
6/24/10	6	<.1 mg/l	Neg
6/24/10	Pullet	<.1 mg/l	Neg
6/24/10	1	<.1 mg/l	Neg
1/5/12	1	<.1 mg/l	Neg
1/5/12	2	.14 mg/l	Not sampled

You must resample the wells for both nitrates and total coliform bacteria again on or around June 24, 2012 to remain on an annual sampling cycle.

Groundwater Monitoring

901:10-2-08(A)(4)(i)&(ii), 901:10-2-03(A)(2)(e)

- Are groundwater monitoring wells required? ☐ Yes ☒ No ☐ N/A
If yes, list results.

Agricultural Drainage Well

901:10-2-02(A)

- Is there indication of an agricultural drainage well (Class V well) on the property? ☐ Yes ☒ No ☐ N/A

If yes, is the agricultural drainage well likely to have runoff?

☐ Yes ☐ No ☒ N/A

Wastewater

901:10-2-08(A)(4)(d)

- Is there a sanitary permit for this facility? ☐ Yes ☒ No ☐ N/A
 - If yes, does the sanitary go to the manure storage and treatment facility? ☐ Yes ☒ No ☐ N/A
 - If yes, is it permitted to do so? ☐ Yes ☐ No ☒ N/A
- Is there proper storage and containment of pesticides, fertilizers and herbicides? ☒ Yes ☐ No ☐ N/A
- Is there proper storage and containment of cleaning solutions? ☒ Yes ☐ No ☐ N/A
- Is there proper storage and containment of vehicle fluids? ☒ Yes ☐ No ☐ N/A
- Is there proper storage and disposal of veterinary supplies? ☒ Yes ☐ No ☐ N/A
- Do any of the above go to the manure storage area? ☐ Yes ☒ No ☐ N/A

Rule 901:10-2-10(A)(4)(d)

IV. MANURE STORAGE AND TREATMENT FACILITIES

- Type of Manure:**

Rule 901:10-2-10(A)

(Check all that apply)

☒ Liquid

☒ Solid

- Annual manure analysis on File?**

Rules 901:10-2-10(C), 901:10-2-16(A)(1)(b)

☐ Yes

☒ No

☐ N/A

Manure Sample Results

Type	Date	Moisture %	NH ₄ -N	Organic N	P ₂ O ₅	K ₂ O
Digester solids	3/17/10	65.16	9.44	8.12	42.78	8.22
Raw Manure	6/24/10	55.89	4.7	30.1	35.82	25.32
Eggwash/digested liquid	11/16/10	99.36	3.22	.42	1.35	2.96
Digester solids	2/17/11	70.53	11.38	9.82	31.36	11.5
Raw manure	2/9/11	66.09	6.7	38.28	26.86	17.16
Washwater	12/8/11	99.65	<.01	1.85	.16	2.01
Raw (SRM sample)	7/13/11	60.13	17.74	28.72	32.54	20.58
Barn 6 (SRM sample)	7/13/11	32.31	8.28	48.78	60.96	38.78
Raw	5/21/12	36.33	3.34	34.3	57.44	34.26

As a reminder, you are required to sample both liquid and solid manure at least once annually, at a minimum.

- Type of manure storage or treatment facility:**

Rule 901:10-2-04

(Check all that apply)

☒ Fabricated structure

☒ Manure storage pond

☐ Manure treatment lagoon

☐ Combination

Fabricated Structure

- Type of fabricated structure:**

Rule 901:10-2-05

(Check all that apply)

☐ Stacking pad/bunker/etc

☐ Concrete block or stave pit

☐ Deep pit

☐ Above ground tank (metal/concrete/other)

☐ High-rise

☒ Manure storage barn (for belt-battery, etc)

☒ Other-compost bldg.

☐ Compacted earthen floor concrete pit

☒ Other-concrete tank-Digester

- Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff?**

Rules 901:10-2-05, 901:10-2-08(A)(4)

☐ Yes

☐ No

☒ N/A

- Are records maintained on storage capacity or manure volume?**

Rule 901:10-2-16(A)(1)(a)(iii)

☐ Yes

☒ No

☐ N/A

Structure	Date	Maximum Operating Level	Current Manure Level
MS Barn	12/1/11	20,000 tons ~ 15.5'	10%
Compost barn	12/1/11	625 tons ~ 3'	<5%
Digester	12/1/11	2 mill. gallons	Constant level maintained
MS Barn	*		
Compost barn	*		

*During this inspection, there was a lack of the required monthly inspection records for the solid manure storage structures since December, 2011. A blank inspection form was e-mailed to you after this inspection, and on June 18, 2012.

The pullet barn's area where manure is conveyed is emptied at least once per week. The manure is hauled to the MS barn at the main facility and used in the digester. During this inspection, Jim indicated that approximately 35 tons/day are added to the digester.

- **Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?**

Rule 901:10-2-08(A)(4)(e) & 901:10-2-16(A)(1)(a)(ii) ☐ Yes ☒ No ☐ N/A

*During this inspection, there was a lack of the required monthly inspection records for the solid manure storage structures since December, 2011. See additional notes at bottom of page 4.

- **Do the inspections match the frequency in the manure management plan?**

Rules 901:10-2-08(A)(1) and 901:10-2-16(A)(1)(a)(ii) ☐ Yes ☒ No ☐ N/A

- **Are these regular inspections properly recorded in the operating record?**

Rules 901:10-2-08(A)(4) and 901:10-2-16(A)(1) Yes ☐ No ☒ N/A

Manure Storage Pond or Manure Treatment Lagoon

- **Type of manure storage pond or manure treatment lagoon (and approximate dimensions)** Rule 901:10-2-06

(Check all that apply)

☒ Earthen manure storage pond ☐ Earthen manure treatment lagoon

(Explain number of ponds/lagoons, type of liner system installed (plastic, recompacted soil, in-situ soil, etc))

- **Is there twelve-inches of freeboard, plus the volume needed to contain the appropriate design storm, if the structure is subject to rainfall and runoff?**

Rules 901:10-2-06(A)(2), 901:10-2-08(A)(4)(a), 901:10-2-16(A)(1)(a)(i)

☒ Yes ☐ No ☐ N/A

- **Are records maintained on storage capacity or manure volume?**

Rule 901:10-2-16(A)(1)(a)(iii) & 901:10-2-06(A)(8) & 901:10-2-08(A)(4)(c)

☒ Yes ☐ No ☐ N/A

Structure	Date	Maximum Operating Level	Current Manure Level
Egg wash pond	12/1/11	12.5'	11'6"
Egg wash pond	5/21/12	12.5'	5'6"

- **Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?**

Rule 901:10-2-08(A)(4)(e) & 901:10-2-16(A)(1)(a)(ii) ☒ Yes ☐ No ☐ N/A

- **Is there evidence in the operating record of weekly inspections of stormwater conveyances, diversion devices and devices channeling contaminated stormwater to the manure storage pond or manure treatment lagoon?**

Rule 901:10-2-16(A)(1)(a)(iv)

☒ Yes ☐ No ☐ N/A

- **Do the inspections match the frequency in the manure management plan?**

Rules 901:10-2-08(A)(1))

☒ Yes

☐ No

☐ N/A

- **Are these regular inspections properly recorded in the operating record?**

Rules 901:10-2-08(A)(1)

☒ Yes

☐ No

☐ N/A

- **Is the level indicator(s) conspicuously located and properly functioning in the manure storage pond or manure treatment lagoon?**

Rules 901:10-2-06(A)(2), 901:10-2-08(A)(4)(o) and 901:10-2-16(A)(1)(a)(i)

☒ Yes

☐ No

☐ N/A

Gary Zwolinski, ODA-DLEP engineer, conducted a survey on December 10, 2009 and identified the Maximum Operating Level of the pond down 1'6" from the top of the bank, which corresponds to the 3.75 mark on the existing device.

- **Is the vegetation near the manure storage pond or the manure treatment lagoon properly maintained?**

Rule 901:10-2-08(A)(4)(j) & (k)

☒ Yes

☐ No

☐ N/A

- **Are the maintenance inspections for stormwater conveyances, runoff diversion structures, devices channeling contaminated stormwater, etc. properly recorded in the operating record?**

Rules 901:10-2-16(A)(1)(a)(v) & 901:10-2-08(A)(4)(i), (j)

☒ Yes

☐ No

☐ N/A

V. MANURE MANAGEMENT

- **Is the schedule for manure removal or manure residual removal outlined in the manure management plan?**

Rules 901:10-2-08(A)(4)(g), 901:10-2-10(B), 901:10-2-16(A)(1)(c)&(e)

☒ Yes

☐ No

☐ N/A

- **List the number of acres utilized for land application. (Include both land that is owned and land that is leased).**

Rules 901:10-2-09(C), 901:10-2-16(A)(1)(c)(ii)

Acres owned	100
Acres leased	
Other land	
Total acres	100

OAC Rule 901:10-2-09 (C) states that to the extent the manure is not managed through distribution and utilization, the manure management plan shall include the total summary of land application areas to be used for the duration of the permit and the land that is available for manure that is generated by the facility. ANY land under the control of the facility that will be used for manure application must be included in the MMP and the operating record and can presently be added as an operational change. Note that when NPDES rules are finalized, any changes in the MMP will more than likely have to be public noticed.

- **Was manure applied on snow-covered or frozen ground?**

☐ Yes

☒ No

☐ N/A

- **If so, was the application site approved for application?**

☐ Yes

☐ No

☒ N/A

Distribution & Utilization

- Is manure distributed through Distribution and Utilization methods?

☒ Yes ☒ No ☐ N/A

Comments: Solid manure is sold. Typically, liquid is applied to land under control/ownership of Wennings.

- If Distribution and Utilization method of manure removal was used, were Appendices A, B, F and the most recent manure analysis given to the recipient of the manure?

Rule 901:10-2-16(A)(1)(e)(iv) & 901:10-2-11(A) ☐ Yes ☒ No ☐ N/A

- Is the record for the Distribution and Utilization of manure maintained in the operation record?

Rule 901:10-2-16(A)(1)(e)(i)(ii)(iii) & 901:10-2-11(B) ☐ Yes ☒ No ☐ N/A

Date	Source	Amount	Destination
2010		12,092 t	Sold
1/15/10	Liquid	150,000 g	Kahlig, CLM
11/10	Liquid	200,000 g	Individual, Indiana
2011	solid	19,984 t	Sold
May, 2011*	Liquid	200,000 g	No records
1/19/12	Liquid	300,000 g	Applied to 75 A W of pond
2012**	Solid		

*In May, 2011, Jim indicated that 200,000 gallons were removed through D&U; however, there were no records available for review, including a signed D&U Agreement. More liquid manure was planned to be removed as soon as ground conditions allowed. You were emailed a request to send this information on December 30, 2011. After the previous inspection and before the final report was mailed out, a D&U Agreement signed by the recipient on December 19, 2011 was faxed to Christine Pence on January 4, 2012.

**In 2012, Wenning had the load counts of solid manure documented in total weights; each truck/trailer is weighed empty/full and those numbers are documented; however, there were no tonnage calculations provided. The CLM receiving the manure maintains the records of tons of manure removed. You are required to maintain this information in your operating records.

Soil Characteristics

- Are all soil analysis properly recorded in the operating record for the last five years?

Rule 901:10-2-16(A)(1)(c)(vi) & 901:10-2-13(D) ☒ Yes ☐ No ☐ N/A

(The analysis records must be taken every three years).

Soil analyses conducted on the Home Farm (100 ac)(W. of ditch). P levels ranged from 178-228 #/ac.

- Are the soil samples representative of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less?

Rule 901:10-2-13(C) ☒ Yes ☐ No ☐ N/A

As a reminder, ANY land under the control of the facility that will be used for manure application must be included in the MMP.

- **Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test?**

Rules 901:10-2-14(D)(E)(3) & 901:10-2-16(A)(1)(c)(xiii)

☐ Yes

☒ No

☐ N/A

* If so, list those fields.

Nutrient Budget

- **Is commercial fertilizer used?**

Rules 901:10-2-09(C)(2)

☒ Yes

☐ No

☐ N/A

* If so, list amount of commercial fertilizer used.

Rule 901:10-2-16(A)(1)(c)(xiv)

Comments: Records maintained in the Op. Records.

- **Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record?**

Rule 901:10-2-16(A)(1)(c)(xiv)

☒ Yes

☐ No

☐ N/A

Comments: Records maintained in the Op. Records.

Cropping Schedules

- **Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record?**

Rule 901:10-2-16(A)(1)(c)(viii)

☒ Yes

☐ No

☐ N/A

- **Is the crop yield for each site properly recorded in the operating record?**

Rule 901:10-2-16(A)(1)(c)(ix)

☒ Yes

☐ No

☐ N/A

- **Is the actual crop yield for each site properly recorded in the operating record?**

Rule 901:10-2-16(A)(1)(c)(xi)

☒ Yes

☐ No

☐ N/A

Application Records

- **If liquid manure is applied, are drain plugs being used?**

Rule 901:10-2-16(A)(1)(c)(iv)

☐ Yes

☒ No

☒ N/A

Available if needed.

- **If liquid manure is applied, are observations of subsurface drains properly recorded in the operating record?**

Rule 901:10-2-16(A)(1)(c)(iii) & 901:10-2-14(G)(2)(a)[Winter only]

☐ Yes

☐ No

☒ N/A

Liquid has been removed through D&U recently.

- **Has the equipment for land application been inspected, maintained and properly recorded in the operating record?**

Rules 901:10-2-08(A)(2)

☐ Yes

☐ No

☒ N/A

- **Are there records in the operating record on soil conditions at times of application, such as soil cracks?**

Rule 901:10-2-16(A)(1)(c) (xvi)

☐ Yes

☐ No

☒ N/A

- **Are application rates and nutrients applied in accordance with ODA rules for nitrogen and phosphorus?**
Rule 901:10-2-14(D),(E) ☐ Yes ☐ No ☒ N/A
- **Are liquid application rates based on the Available Water Capacity chart?**
Rule 901:10-2-14(C)(1)(d) ☐ Yes ☐ No ☒ N/A
- **Are there records of general weather conditions, temperature and rainfall 24 hours before and after manure applications?**
Rules 901:10-2-12 and 901:10-2-16(A)(1)(c)(xvii) ☐ Yes ☐ No ☒ N/A
- **Are setbacks maintained and properly recorded in the operation record?**
Appendix A of Rule 901:10-2-14 and Rule 901:10-2-16(A)(1)(c)(vii) ☐ Yes ☐ No ☒ N/A
- **Is there evidence of documented use of vegetative cover to protect stream channels?**
Rules 901:10-2-14, including Appendix A and 901:10-2-16(A)(1)(c)(vii) ☐ Yes ☐ No ☒ N/A

VI. INSECT AND RODENT CONTROL

- **Is the insect and rodent control plan properly implemented by the owner or operator or manager?**
Rule 901:10-2-19 & 901:10-2-16(A)(1)(a)(viii) ☒ Yes ☐ No ☐ N/A
- **Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities?**
Rule 901:2-19(B)(3)(a)(i) ☒ Yes ☐ No ☐ N/A
- **Are these inspections properly recorded in the operating record?**
Rule 901:10-2-19(B)(3)(a)(iii) ☒ Yes ☐ No ☐ N/A

Operating Records					ODA inspection results				
Date	Barn	Flies	Larvae	Beneficials	Date	Barn	Flies	Larvae	Beneficials
Under threshold level for treatment on spec cards.					5/24/12	Outside*	F	n/a	n/a

Comments: One sheet is used per barn/day. Waterline checks, fan checks, mortality, rodents and other inspections are recorded.

* During this inspection, there were very few flies observed outside of the manure storage barn, the barn formerly used to compost mortality and outside of the south end of the pullet barn. Carefully monitor and properly treat flies, specifically in these areas. The PTO indicates bait will be used.

- **Is proper maintenance of the watering system properly recorded in the operating record?**
Rule 901:10-2-19(B)(3)(a)(ii) ☒ Yes ☐ No ☐ N/A
- **Are daily inspections of drinking water lines being made and recorded in the operating record?**

Rule 901:10-2-08(A)(4)(n) & 901:10-2-19(B)(3)(a)(ii)

☒ Yes

☐ No

☐ N/A

VII. MORTALITY MANAGEMENT

- **What type of mortality management does the facility have?**

Rule 901:10-2-15 and 901:10-2-16(A)(1)(f)(i)

Comments: Mortality is being staged in the former compost barn, and covered with manure until used in the digester. The northwest corner of the barn is used to receive manure off the manure conveyer belt from layer barns 3, 4 and 5.

- **Are there inspection records properly recorded in the operating record on mortality?**

Rules 901:10-2-15 and 901:10-2-16(A)(1)(f)(ii)

☒ Yes

☐ No

☐ N/A

- **Are Best Management Practices being utilized?**

☒ Yes

☐ No

☐ N/A

VIII. OPERATING RECORD – GENERAL

- **Are all operating records up-to-date and available for review by the inspector?**

Rules 901:10-2-08 and 901:10-2-16

☐ Yes

☒ No

☐ N/A

See items under required actions.

- **Is a copy of the RCC, PTI, PTO and/or NPDES permit with the operating record or located in the site office?**

Rule 901:10-2-01(B)(3) for PTI

901:10-2-07(E) for PTO & NPDES

901:10-1-07 for RCC as being part of PTO

☒ Yes

☐ No

☐ N/A

- **Have the operating records been retained by the owner or operator for a minimum of five years?**

Rule 901:10-2-16(A)(1)

☒ Yes

☐ No

☐ N/A

- **Since the last inspection, have any operational changes been made at the facility?**

Rule 901:10-1-09(F)

☐ Yes

☒ No

☐ N/A

IX. VISUAL INSPECTIONS AND OUTSIDE INFORMATION

Water Quality Impacts

- **Is there evidence of actual offsite discharge?**

Rules 901:10-2-08 and 901:10-2-16(A)(1)(a)

☐ Yes

☒ No

☐ N/A

- **Are there areas of concern for water quality impacts?**

Rules 901:10-2-08 and 901:10-2-16

☐ Yes

☒ No

☐ N/A

- **Is the water well location maintained in a proper manner to avoid contamination?**

☒ Yes☐ No☐ N/A

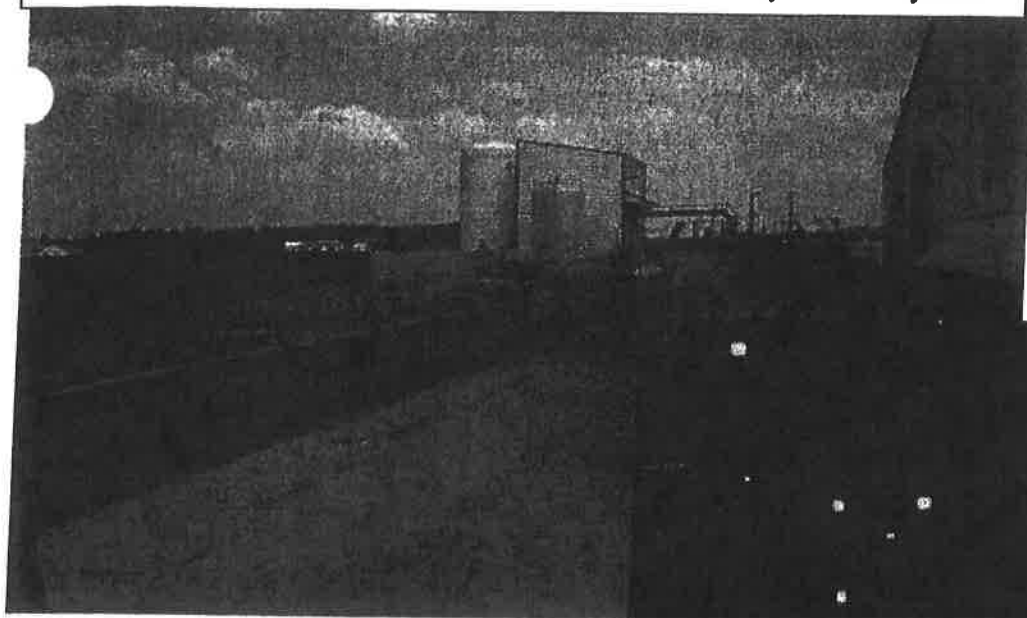
• **Facility upkeep and general appearance?**

☐ Above average☒ Average☐ Below average☐ Poor

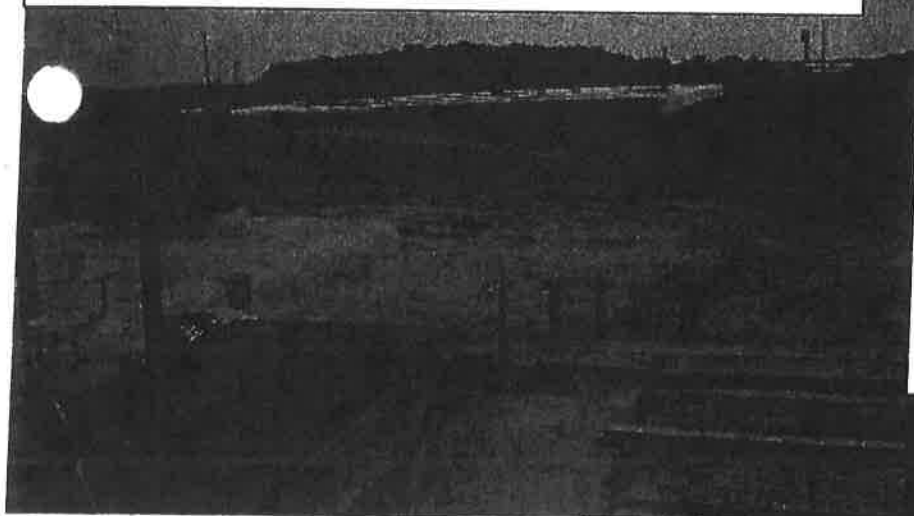
Describe the upkeep and general appearance of the following:

	<i>Above Average</i>	<i>Average</i>	<i>Below Average</i>	<i>Poor</i>	<i>Comments</i>
Diversion Ditches					
Diversion Dikes					
Berms					
Embankments	x				
Pipe Runs					
Grassed Waterways	x				
Vegetative Cover	x				
Contour Grass Strips					
Settling Basins					
Feed System	x				
Storage Areas					
Watering System	x				
Walkways or Walk Areas Inside Building	x				
Walkways or Walk Areas Outside Building		x			Continue to keep concrete areas clean of manure transferred from the barns to the manure storage barn.
Feed Alleys					
Chemicals					
Screens					
Ventilation Systems, i.e. Fans	x				
Others					

View of mixing pit and newly constructed nutrient recovery aeration system.



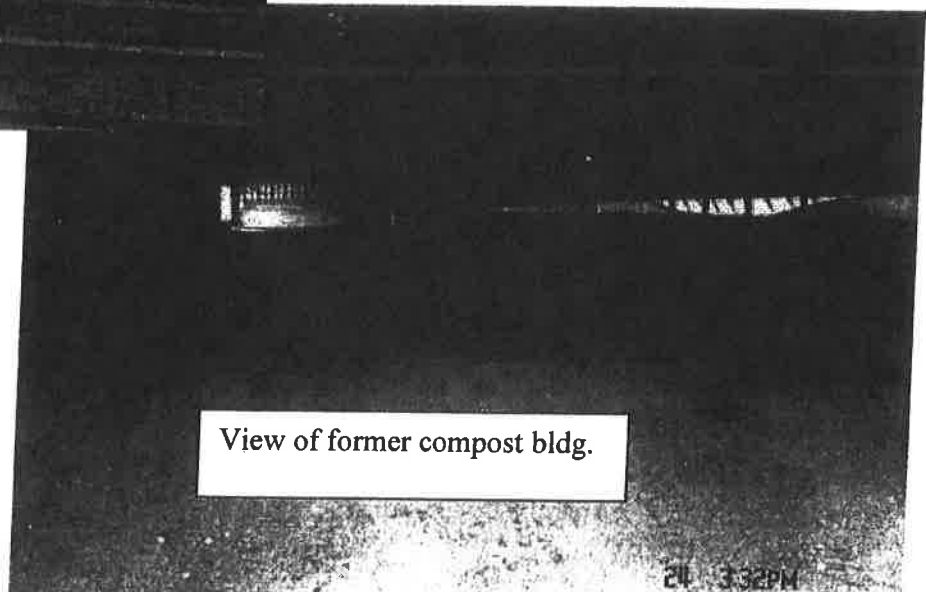
View of digester (far white pit) and nutrient recovery pit (bottom left)



View of manure storage bldg.

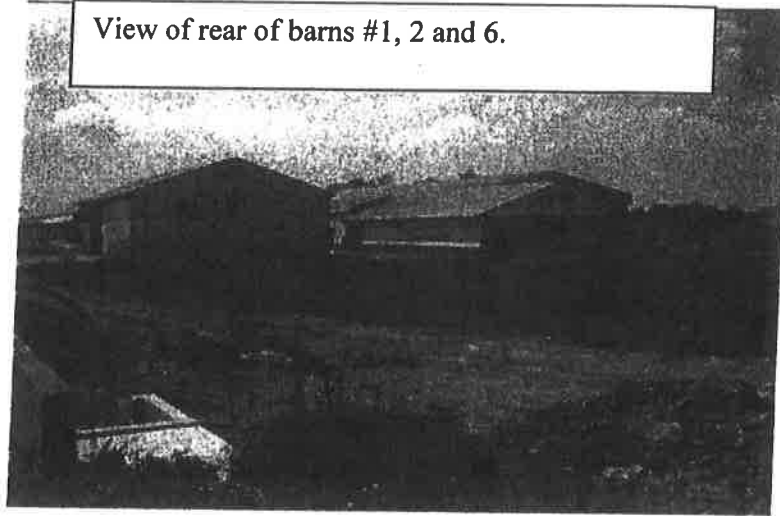


View of former compost bldg.



24 3:32PM

View of rear of barns #1, 2 and 6.



X. SUMMARY

- Were the results of the inspection discussed with the owner, operator, manager, representative or livestock manager?

☒ Yes

☐ No

☐ N/A

The results will be sent to either the owner, operator, manager, representative or livestock manager.

Required Actions:

- You must resample the wells for both nitrates and total coliform bacteria again on or around June 24, 2012 to remain on an annual sampling cycle. A reminder e-mail was sent to you shortly after this inspection.
- During this inspection, there was a lack of the required monthly inspection records for the solid manure storage structures since December, 2011. This form was e-mailed to you after this inspection, and again on June 18, 2012.
- Proper records of solid manure removed from the facility were not maintained. You had load weights only. You must maintain this information in your operating records.
- Submit as-builts of the Nutrient Recovery Tank system installation, along with a certified letter of completion no later than August 10, 2012.

Reminder Actions:

- Continue to keep concrete drives clean of manure around the mixing pit and manure storage barns.

"I certify that this information was reviewed by the inspector and/or the owner, operator, manager, representative or livestock manager of the facility."

Signature of Owner, Operator, Manager,
Representative or Livestock Manager

Date

Christine Pence

5/24/2012

Signature of Inspector

Date

Present for inspection and report signed by: Jim Wenning, Wenning Poultry Farm – records/facility
Christine Pence, ODA DLEP inspector



Department of
Agriculture

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
A.B. Graham Building
8995 East Main Street, Reynoldsburg, OH 43068
Phone: 614-387-0470 • Fax: 614-728-6335
www.agri.ohio.gov • lepp@agri.ohio.gov

INSPECTION FORM
I. FACILITY INFORMATION

Name of Inspector: Jim Young
Inspection Start Time: 7:00 a.m.

Date of Inspection: 5.22.2013
Inspection End Time: 9:30 a.m.

Purpose of Inspection:

- ☐ 1st Routine
☐ 2nd Routine
☐ 3rd Routine

- ☐ Complaint
☒ Enforcement
☐ Other

Facility:

Rule 901:10-2-01(C)(1)

Croton Layer 1
11995 Croton Road
Croton, Ohio 43013

Owner/Operator:

Rule 901:10-2-01(C)(1)

Ohio Fresh Eggs, LLC
10513 Croton Road
P.O. Box 247
Croton, Ohio 43013

Trillium Farm Holdings, LLC
10513 Croton Road
Croton, Ohio 43013

Contact Person (if not owner/operator):

Ramchand Almor, Dick Rowley, and Tabi Smith
Ram Cell: 740-817-0279
Dick Cell: 614-745-9869
Tabi Cell: 614-600-0482
Sr. Manager of Production: Dave Hasemann
Cell: 614-832-2564
Complex Manager: Phil Budd
Cell: 614-214-1777

Pest Control Manager: David Fabian
Cell: 614-738-3227
Production Manager: Kindra Burger
Cell: 740-817-0249

PERMIT NUMBER: 45-131-PTI-002 and 45-131-PTO-002

Expiration Date: 4.11.2014 and 4.11.2017

Livestock Manager Name:

Rule 901:10-1-06

Certificate Number:

Date of Expiration of Certificate:

Biosecurity Information:

Inspector followed facility or industry

biosecurity plan ☒ Yes ☐ No ☐ N/A

-- whichever is more stringent



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Name	CLM #	Expiration	Credit Hours
Dick Rowley	170	2015	0
Phil Budd	217	2014	10
Sheryl Logue	335	2015	0
Dave Haseman	334	2015	0
Scott Michalak	353	2015	0
David Gatten	152	2014	10
David Fabian	113	2013	10
Clint Perkins	218	2014	0
Al McDougal	355	2014	0
Kindra Burger	336	2014	0
Santos Duran	337	2015	1 0

II. FACILITY OPERATION INFORMATION

Number and Type of Animals

Animal Type	Existing Number of Animals (leave blank if new)	Maximum Number of Animals (for new or expanding)
Dairy heifers		
Mature cows (milked or dry)		
Swine Over 55 pounds		
Swine Under 55 pounds		
Horses		
Laying hens	2,147,294	2,401,727
Broilers		
Pullets		
Others: Pullets		

Number of Employees: Trillium – 17; Contract - 10
Type of Feed System: Dry

III. Purpose of Partial Inspection

The following items were sent on May 13, 2013 in a Warning Letter to inform Trillium Farms Croton Layer #1 of violations of their Permit to Operate (PTO) and the Consent Order dated June 28, 2011 that were found during our Partial re-inspection on April 22, 2013 at Trillium Farms Croton Layer #1.

1. As per the May 13, 2013 Warning Letter - During the review of other facility operating records, it was found that there were no reports for the last 2 weeks for the outside barn pesticide applications or treatments. These reports must be completed, reported, and filed weekly, whether there has or has not been any applications made that week. Also, it was found that the Daily Barn Inspection Report forms, FEM-3, are all identical from January 1, 2013 through April 22, 2013. During that period of time the manure in each barn, with the exception of Barns #13A and 14B, for each day was listed as dry. The ODA inspection report for 2.22.2013 indicated that manure in the belt battery barns was wetter than during past inspections. It was also reported that the manure was pliable and the manure in the manure storage barns was slumped. Also the last Management Team Inspection Report (FEM 5BB) for April 10, 2013 reported Barn #12 as having wet-dry manure, Barn #13A with few-moderate flies, and Barn #14B having moderate flies. As a result of this review, the accuracy of the Daily Barn Inspection Report FEM-3 is questioned. Since the Site Production Manager is required to fill out this report by entering each barn on a daily basis, it is questioned if this is being done.

Findings during this inspection on May 22, 2013:



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- All required reports are being properly filled out and maintained. Reports are being done daily and weekly as required.
- 2. As per the May 13, 2013 Warning Letter - The Management Team Inspection Report (FEM 5BB), which requires a walk through and inspection of each layer house and manure storage barn every two weeks, is not being done properly. This inspection is to be completed by the Compliance Officer, Site Production Manager, and Senior Production Manager. The Senior Production Manager has not been participating in these inspections and a failure to do so is a violation of the IRCP of the PTO.

Findings during this inspection on May 22, 2013:

- The Management Team Inspections are being done properly.

4/24/2013 - Kendra Burger (Site Production Manager), Dave Haseman (Sr. Production Manager), Dick Rowley (Compliance Officer), Maxcy Nolan (Professional Entomologist), Dave Fabian (Pest Control Manager), and Steve Riffel (Asst. Site Manager) walked the barns. This was before the Warning letter was issued on May 13, 2013. This walk did not include the Director of Operations.

5/8/2013 – Kendra Burger (Site Production Manager), Dave Haseman (Sr. Production Manager), Dick Rowley (Compliance Officer), and Steve Riffel (Asst. Site Manager) walked the barns.

5/22/2013 - Kendra Burger (Site Production Manager), Dave Haseman (Sr. Production Manager), Dick Rowley (Compliance Officer), Maxcy Nolan (Professional Entomologist), Ram Almore (Director of Operations), Jim Young (ODA-DLEP Inspector), and Steve Riffel (Asst. Site Manager) walked the barns.

As per the May 13, 2013 Warning Letter - During the barn inspections, observations were made that the large amount of dust/dander and overall cleanliness of the barns has not improved and possibly has worsened since ODA's inspection on February 22, 2013. In that inspection, it was reported "All of the barns had more dust and dander under the cage rows than has been seen during other inspections. This increase in dust/dander provides good areas for pupae to hatch. There are concerns about the lack of housekeeping in the barns." Barns #5 and #9 were cleaner than during the last inspection but the rest of the barns were dirtier than before with dust on the floor and under the cage rows as deep as 3 inches. On page #2 of the IRCP it states "The buildings will be maintained in such a manner as to minimize the activity and reduce the presence of insects and rodents." On page #5 of the IRCP it states "All walkway areas that have the opportunity for spilled organic materials (such as eggs, mortalities, manure and feeds) will be inspected to ensure no spilled or wasted materials that may serve as a food or breeding medium for insects or rodents remains. Any spilled material discovered will be cleaned up from these areas on a regular basis. Form FEM-4 will be used to record such activities in the operating record." To do so, Form FEM-4 may need to be revised to allow this information to be recorded.

Findings during this inspection on May 22, 2013:



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- There was a noted improvement in the cleanliness of most of the barns. In several of the barns, the downstairs was cleaned but the upstairs was left untouched and still had an accumulation of dust and dander on the surfaces of the equipment. Barns #2 and #4 were clean throughout and in good condition. It is recommended the barn manager, Santos, of these two barns assist in training other barn managers on what is an acceptable level of cleanliness.

As per the May 13, 2013 Warning Letter - The IRCP also calls for the manure belts to be moved once every day, removing approximately 20% of the manure on the belts. It is reported that the belts are being moved and completely emptied every 2-3 days. This may be one contributing factor of why the manure on the belts has been wetter than normal.

Findings during this inspection on May 22, 2013:

- At the present time, the manure belts are being ran for 16 minutes/day. At this rate, the belts are emptied in 3-4 days. We had a very lengthy discussion about the dryness of the manure on the belts after 3-4 days as opposed to the required 5 days. It is thought by Maxcy Nolan and farm personal that the manure will be no dryer in five days. The main reason being there is always fresh manure being added to the belt. One concern has been that with the dryer manure, there has been issues with the manure rolling backward and not adhering to the manure belt taking the manure to the manure storage barns. This belt has a steep incline and the dry manure has a tendency to tumble and causing some spillage at the lower portion of the belt. It was discussed that in the past, before the new permits were issued, the manure coming off the belts in each barn was tested quarterly for manure moisture. Those readings would vary from 28% - 60% with the majority of the barns being between 40% and 50%. We discussed that to get the requirement for moving the belts 20%/day changed, there would need to be moisture testing done to justify the reasoning for moving the manure belts under the cages more than the required 20%/day. This information shall be submitted with a formal, written letter to ODA-DLEP for review.

As per the May 13, 2013 Warning Letter - All members of the Management Team shall be involved in the required inspections and discussion on Insect and Rodent Control as set forth in the Permit to Operate and the Consent Order.

Findings during this inspection on May 22, 2013:

- During this inspection all required persons participated in the barn inspections and participated in evaluating all of the barns, discussing the findings in the barns, and discussing possible solutions for any existing and/or possible future problems. This shall continue in the future.



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SUMMARY

- Were the results of the inspection discussed with the owner, operator, manager, representative, or livestock manager?

☒ Yes

☐ No

☐ N/A

Comment: The results of this inspection were discussed with all of those in attendance during the inspection.

Findings:

- It was found that all items in the Warning Letter have been addressed and this facility has returned to compliance.

"I certify that this information was reviewed by the inspector with the owner, operator, manager, or representative of the facility."



5/22/2013

Signature of Inspector

Date

Accompanying me during the inspection was Dick Rowley, Kendra Burger, Dave Haseman, Ram Almoro, Maxcy Nolan, and Steve Riffel.

Cc: Orland Bethel – Ohio Fresh Eggs
J.T. Dean – Trillium Farms
Doug Mack – Trillium Farms
Dick Rowley – Trillium Farms
Dave Hasemann - Trillium Farms
Ramchano Almoro – Trillium Farms
Sheryl Logue - Trillium Farms
Tabi Smith - Trillium Farms
David Fabian – Trillium Farms
Maxcy Nolan – Professional Entomologist
Jim Kiracofe - Licking SWCD
Kirk Hines – ODNR-DSWR
Kelly, McCloud - Assistant Attorney General
Kevin Elder – Division Chief ODA-DLEP
Andy Ety – Engineer ODA-DLEP



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Complaint Investigation

Date: May 29, 2013

Time of Complaint: 7:28 a.m.

Complaint Investigated By:
Jim Young

Complainant:
Guy Julian
12110 Clover Valley Road
Croton, Ohio 43013
Cell: 740-817-2835

Facility:
Croton Layer #3
11652 Clover Valley Road
Croton, Ohio 43013

Complaint Information:

The Ohio Department of Agriculture, Department of Livestock Permitting was forwarded an e-mail from Cole Miller, Ohio EPA, by Jon Bernstein, Ohio EPA PTI Compliance Assistance & CAFO Unit, at 7:28 a.m. on May 29, 2013. Guy Julian had called to complain about the flies from Trillium Farms Layer #3. The following information was received by ODA:

"We received a fly complaint about Trillium Farms Egg Producing in Croton, OH. I received the call from DMWM but the complainant alleges that the company has attempted to reduce flies but has been unsuccessful. The complainant wants follow-up with someone. His name is Guy Julian and his phone number is (740) 817-2835."

Follow up phone call:

5/29/2013 – 7:34 a.m. – to Guy Julian
There was no answer so I left a message

Follow up phone call:

5/29/2013 - 7:40 a.m. – to Dick Rowley – Trillium Farms Compliance Office.



Dick said that he was aware of the fly issues at the Julian residence, which is located just northeast and across the road from Trillium Layer #3. Dick said that Santos has been having the residence sprayed by farm personnel on Tuesday of each week. Dick has also taken fly strips and aerosol fly spray cans to the residence. Dick indicated that the manure in the manure storage barns is wet and there are more flies than normal. Larry Cooperrider has been hauling the manure and has the North Manure Storage Barn empty.

Follow up phone call:

5/29/2013 – 9:35 a.m. – Guy Julian

Guy returned my call. He said that Larry Cooperrider has been hauling manure from Layer #3 and had told him about wet manure and the flies. He also told me that Trillium Farms had agreed to spray his residence on Tuesday and Friday of each week. However, he was home all day on Tuesday the 28th and nobody showed up to spray. He said that over the Memorial Day weekend the flies were the worst he has seen them. He said there are flies in the house and in the bushes around the house. He stated that when Trillium Farms comes to spray, they only spray the grass areas and don't get close to the house. He would like for someone to come and look at his problem. I told him I would be able to visit the residence that afternoon. He said they are out of the state but will have his father meet me at his residence.

Site Visitation Findings:

I met Dick Rowley, Trillium Farms Compliance Officer, and Santo Duran, Layer #3 Site Production Manager at 3:30 p.m. on May 29th at Layer #3. The North Manure Storage Barn been emptied. The manure in this barn is now about 12-18 inches high and appears to have good texture and is much dryer. At the present time, the manure in the South Manure Storage Barn is being removed. This manure is very wet and slumped. Larry Cooperrider is taking manure from the center of the barn, and as he does, the sides slump toward where manure has been removed. Both barns are being baited. The South barn has a lot of fly activity around the front area of the barn. Santos said that as long as the manure is being removed and the flies remain stirred up he has a hard time controlling them with bait and spray. RaVap is being sprayed regularly on the open end of the barn. This barn was last sprayed on May 28th. The North barn is baited, has been sprayed with RaVap and has very little fly activity. All the exhaust fans are running in Barns #41A and 42B. These are the turbo barns that are not belt battery and the manure is removed daily and not dried on the belts. With the exhaust fans operating, the air movement is helping a little to dry the manure on the belts in the pits.

Santos said they sprayed the Julian residence about 2:00 p.m. on the 29th. The residence was sprayed the prior week on Tuesday and has been sprayed for the past four weeks with BP-100. The grass and the bushes are sprayed but they try to not get spray on the house and don't spray around the areas where windows are open. BP-100 is a knock down spray and has no residual.



Residence Visitation Findings:

From Layer #3, Dick Rowley, Santos Duran, and I visited the Julian residence and met with Eleno Julian. In the garage, there was a fly strip hanging in the window. The strip was covered with flies, but there were no live flies observed in the garage. In the kitchen/dining area located on the south side of the residence and facing toward Layer #3, there were several dead flies on the floor and 8-10 live flies observed. Around the outside of the residence on the siding and in the bushes, there were very few flies observed. However, as stated before, the residence had been sprayed two hours before our visit. There were a few flies in the area behind the residence. No flies were observed by Dick and Santos in the barn. Eleno said there were many more flies over the weekend and agreed there were few flies at the time of our visit.

Actions to be Taken:

During the visit to the residence and the discussion between Trillium Farms personnel, Dick Rowley and Santo Duran, and Eleno Julian, it was agreed that Trillium Farms will spray the Julian residence on Tuesday and Friday of each week until the fly populations at Layer #3 has diminished. Also, Guy Julian is to call the farm if they are planning any outdoor activities such as a cookout and the farm will come and spray. It was agreed that all windows and doors will be closed on Tuesday and Friday of each week so spraying can be done without concern of spray getting in through the windows and into the residence. Dick will bring fly strips and aerosol spray cans as requested. It is recommended that the manure storage barns be cleaned and manure removed on a weekly basis until more barns are placed into production or until fly conditions have subsided. It is also recommended that future construction efforts be focused for completion of all barns on one side of the facility.

Conclusion:

Based on observations at Layer #3, spray records, and observations at the Guy Julian residence, it is believed the flies at the residence are coming from the Manure Storage Barns at Layer #3. Trillium Farms has agreed to spray the residence on Tuesday and Friday of each week. Dick will bring fly strips and aerosol spray cans as requested. It is recommended that all manure be removed from the manure storage barns on a weekly basis to aid in breaking the fly cycle.

Jim Young
Livestock Environmental Inspector

Cc:

Orland Bethel – Ohio Fresh Eggs



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J.T. Dean – Trillium Farms
Doug Mack – Trillium Farms
Dick Rowley – Trillium Farms
Dave Hasemann - Trillium Farms
Ramchano Almore – Trillium Farms
Sheryl Logue - Trillium Farms
Tabi Smith - Trillium Farms
Jim Kiracofe - Licking SWCD
Kirk Hines – ODNR-DSWR
Kevin Elder – Division Chief ODA-DLEP
Andy Ety – Engineer ODA-DLEP
Maxcy Nolan – Professional Entomologist



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**Department of
Agriculture**

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
A.B. Graham Building
8995 East Main Street, Reynoldsburg, OH 43068
Phone: 614-387-0470 • Fax: 614-728-6335
www.egri.ohio.gov • lepp@agri.ohio.gov

INSPECTION FORM

I. FACILITY INFORMATION

Name of Inspector: Jim Young/Christine Pence
Inspection Start Time: 7:45 a.m.

Date of Inspection: 6.19.2013
Inspection End Time: 2:00 p.m.

Purpose of Inspection:

- ☐ 1st Routine
☒ 2nd Routine
☐ 3rd Routine

- ☐ Complaint
☐ Enforcement
☐ Other

Facility:

Rule 901:10-2-01(C)(1)

Croton Layer #3
11652 Clover Valley Road
Croton, Ohio 43013

Owner/Operator:

Rule 901:10-2-01(C)(1)

Ohio Fresh Eggs, LLC
10513 Croton Road
Croton, Ohio 43013

Trillium Farm Holdings, LLC
241 St. Andrews Way
Sioux Center, Iowa 51250

Contact Person (if not owner/operator):

Dick Rowley, and Tabi Smith
10513 Croton Road
Croton, Ohio 43013
Dick Cell: 614-745-9869
Tabi Cell: 614-600-0482

Director of Operations: Ramchand Almore
Cell: 740-817-0279

Sr. Production Manager: Dave Hasemann
Cell: 614-832-2564

Production Manager: Santos Duran
Cell: 740-817-3821

Barn Manager: Eugenio Mendoza & Daniel Castro

PERMIT NUMBER: 45-133-PTI-002 and 45-133-PTO-002

Expiration Date: 4.11.2014 and 4.11.2017



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Permit Modification:**Date Effective:**

Rule 901:10-1-01(FFF)

Major Operational Changes:**Date Effective:**

Appendix to Rule 901:10-1-09

Livestock Manager Name:

Rule 901:10-1-06

Name	CLM #	Expiration	Credit Hours
Dick Rowley	170	2015	0
Phil Budd	217	2014	10
Sheryl Logue	335	2015	0
Dave Haseman	334	2015	0
David Gatten	152	2014	10
Al McDougal	355	2015	0
Santos Duran	337	2015	0

Certificate Number:**Date of Expiration of Certificate:****Biosecurity Information:**

Inspector followed facility or industry biosecurity plan ☒ Yes ☐ No ☐ N/A
 -- whichever is more stringent

II. FACILITY OPERATION INFORMATION**Number and Type of Animals**

Rule 901:10-2-01(C)(2) and 901:10-1-07(A)(2)

Animal Type	Existing Number of Animals (leave blank if new)	Maximum Number of Animals (for new or expanding)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)		
Swine Over 55 pounds		
Swine Under 55 pounds		
Horses		
Sheep or lambs		
Turkeys		
Laying hens	422,175	2,489,066
Broilers		
Duck		
Pullets		

Barn	Stocked	Permitted	Age
29	113,824	165,509	54
31	144,013	165,509	55
41A	81,986	85,970	53
42B	82,352	85,970	53
	422,175	502,958	



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Others: Pullets		
-----------------	--	--

Comment: Barn #30 is almost complete and ready for stocking.

Number of Employees: Trillium – 1; Contract - 5

Type of Feed System: Dry

III. WATER SYSTEM

Water Supply Sources

Rule 901:10-2-08

- **Is there a well located at the facility?** ☒ Yes ☐ No ☐ N/A
How Many: 4

- **Is water treatment used:** ☐ Yes ☒ No ☐ N/A
If so, where does backflush water go?

Drinking Groundwater Sampling

- **Are records of the groundwater sampling analysis properly recorded in the operation record?** ☐ Yes ☐ No ☒ N/A

List the dates of the last samples taken.

Groundwater Sample Results

Date	Nitrate	TCR
1/7/2010	0.11 mg/l	Negative
1/13/2011	0.14 mg/l	Negative
7/27/2012	0.819 mg/l	Positive
1/21/2013	0.17 mg/l	Negative

Groundwater Monitoring

901:10-2-08(A)(4)(i)&(ii), 901:10-2-03(A)(2)(c)

- **Are groundwater monitoring wells required?** ☐ Yes ☒ No ☐ N/A
If yes, list results.

Agricultural Drainage Well

901:10-2-02(A)

- **Is there indication of an agricultural drainage well (Class V well) on the property?** ☐ Yes ☒ No ☐ N/A

If yes, is the agricultural drainage well likely to have runoff?

☐ Yes ☐ No ☒ N/A

Other Waste, Chemicals and Contaminants

901:10-2-08(A)(4)(d)



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- Is there a sanitary permit for this facility? ☒ Yes ☐ No ☐ N/A
 - If yes, does the sanitary go to the manure storage and treatment facility? ☐ Yes ☒ No ☐ N/A
 - If yes, is it permitted to do so? ☐ Yes ☐ No ☒ N/A
- Are all other waste, including medical waste, cleaning solutions, pesticides, fertilizers, herbicides and other contaminants stored/handled in a manner that will not discharge into a manure storage or treatment facility? ☒ Yes ☐ No ☐ N/A

If no, provide brief explanation and if the discharge into the manure storage or treatment facility is permitted/allowed. _____

IV. MANURE STORAGE AND TREATMENT FACILITIES

- **Type of Manure:**
 Rule 901:10-2-10(A)
 (Check all that apply) ☒ Liquid ☒ Solid
- **Annual manure analysis on File?** ☒ Yes ☐ No ☐ N/A
 Rules 901:10-2-10(C), 901:10-2-16(A)(1)(b)

Manure sample Results

Barn	1 st Quarter Moisture 2/14/2013	2 nd Quarter Moisture 5/16/2013	Total Nitrogen		P ₂ O ₅ / Ton	K ₂ O/ Ton
			NH ₄ +N	Organic		
MSB-N	62.26 %	66.17 %	9.88 #/ton	19.12 #/ton	25.28 #/ton	24.08 #/ton
MSB-S	52.39 %	65.32 %	18.16 #/ton	48.10 #/ton	35.52 #/ton	35.52 #/ton

Comment: Full battery was taken on 2/14/2013. New full battery manure samples will be taken this fall.

Since the 2nd quarter manure moisture was over 60%, the following remedial actions were reported to be taken. South barn is being emptied; north barn middle pile is already removed, will install portable fans alternating rows every week, if moisture in the remaining two side increases manure will be turned over.

Egg Wash Sampling

Date	Phosphorous Total	Ammonia	Nitrate	P ₂ O ₅
9/25/2008	0.452 mg/l	<0.1 mg/l	<0.1 mg/l	
1/8/2009	7.2E-7 #/1000 gal	<0.8128 #/1000 gal	<0.8128 #/1000 gal	
1/7/2010	4.5E-6/1000 gal	<2.5E+1/1000 gal	<8.4288#/1000 gal	
1/13/2011	<0.0115#/1000 gal	<0.8242#/1000 gal	<0.8242#/1000 gal	<0.0115#/1000 gal
6/22/2011	<0.2 mg/l	<0.3 mg/l	1.12 mg/l	



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8/25/2011	<0.2 mg/l	<0.3mg/l	<0.1 mg/l	
1/11/2012	5.536 mg/l	36.3 mg/l	2.04 mg/l	
4/20/2012	<0.2 mg/l	<0.3 mg/l	0.1 mg/l	
9/12/2012	<0.2 mg/l	0.33 mg/l	0.13 mg/l	
1/21/2013	<0.2 mg/l	<0.3 mg/l	0.1 mg/l	
5/14/2013	1.06 mg/l	0.93 mg/l	1.1 mg/l	

Storm Water Sampling

Date	Phosphorous Total	Ammonia	Nitrate	P ₂ O ₅
1/13/2011	<0.0118#/1000 gal	<0.8487#/1000 gal	<0.8487#/1000 gal	<0.0118#/1000 gal
6/22/2011	<0.2 mg/l	<0.3 mg/l	0.17 mg/l	
8/25/2011	<0.2 mg/l	<0.3 mg/l	<0.1 mg/l	
1/11/2012	0.445 mg/l	<0.3 mg/l	0.18 mg/l	
4/20/2012	<0.2 mg/l	<0.3 mg/l	0.1 mg/l	
9/12/2012	<0.2 mg/l	<0.3 mg/l	0.1 mg/l	
1/21/2013	1.618 mg/l	5.08 mg/l	TKN 5.67 mg/l	

- Type of manure storage or treatment facility:**

Rule 901:10-2-04

(Check all that apply)

- ☒ Fabricated structure ☒ Manure storage pond
☐ Manure treatment lagoon ☐ Combination

Fabricated Structure

- Type of fabricated structure:**

Rule 901:10-2-05

(Check all that apply)

- ☐ Stacking pad/bunker/etc ☐ Concrete block or stave pit
☐ Deep pit ☐ Above ground tank (metal/concrete/other)
☐ High-rise ☒ Manure storage barn (for belt-battery, etc)
☐ Other ☐ Compacted earthen floor concrete pit

- Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff?**

Rules 901:10-2-05, 901:10-2-08(A)(4)

- ☒ Yes ☐ No ☐ N/A

- Are records maintained on storage capacity or manure volume?**

Rule 901:10-2-16(A)(1)(a)(iii)

- ☒ Yes ☐ No ☐ N/A

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?**

Rule 901:10-2-08(A)(4)(e) & 901:10-2-16(A)(1)(a)(ii)

- ☒ Yes ☐ No ☐ N/A



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- **Do the inspections match the frequency in the manure management plan?**
Rules 901:10-2-08(A)(1) and 901:10-2-16(A)(1)(a)(ii) ☒ Yes ☐ No ☐ N/A
- **Are these regular inspections properly recorded in the operating record?**
Rules 901:10-2-08(A)(4) and 901:10-2-16(A)(1) ☒ Yes ☐ No ☐ N/A

Manure Storage Pond or Manure Treatment Lagoon

- **Type of manure storage pond or manure treatment lagoon (and approximate dimensions)** Rule 901:10-2-06
(Check all that apply)
☒ **Earthen manure storage pond** ☐ **Earthen manure treatment lagoon**
(Explain number of ponds/lagoons, type of liner system installed (plastic, recompacted soil, in-situ soil, etc))
- **Is there twelve-inches of freeboard, plus the volume needed to contain the appropriate design storm, if the structure is subject to rainfall and runoff?**
Rules 901:10-2-06(A)(2), 901:10-2-08(A)(4)(a), 901:10-2-16(A)(1)(a)(I) ☒ Yes ☐ No ☐ N/A
- **Are records maintained on storage capacity or manure volume?**
Rule 901:10-2-16(A)(1)(a)(iii) & 901:10-2-06(A)(8) & 901:10-2-08(A)(4)(c) ☒ Yes ☐ No ☐ N/A

Structure	Date	MOL	Current Level	Storage Remaining
SW Pond	6/17/2013	11.54 Feet	7.25 feet	4.29 feet
EW Cell #1	6/17/2013	12.59 feet	11.75 feet	0.84 feet
EW Cell #2	6/17/2013	12.54 feet	9.75 feet	2.79 feet

Comment: On 1/30/2013, OEPA granted permission for this SW Pond to be discharged through the newly constructed Enhanced Treatment System. Since that time, there has been 15,059,245 gallons discharged from the SW Pond.

- **Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?**
Rule 901:10-2-08(A)(4)(e) & 901:10-2-16(A)(1)(a)(ii) ☒ Yes ☐ No ☐ N/A
- **Is there evidence in the operating record of weekly inspections of stormwater conveyances, diversion devices and devices channeling contaminated stormwater to the manure storage pond or manure treatment lagoon?**
Rule 901:10-2-16(A)(1)(a)(iv) ☒ Yes ☐ No ☐ N/A



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- **Do the inspections match the frequency in the manure management plan?**
Rules 901:10-2-08(A)(1)) ☒ Yes ☐ No ☐ N/A
- **Are these regular inspections properly recorded in the operating record?**
Rules 901:10-2-08(A)(1) ☒ Yes ☐ No ☐ N/A
- **Is the level indicator(s) conspicuously located and properly functioning in the manure storage pond or manure treatment lagoon?**
Rules 901:10-2-06(A)(2), 901:10-2-08(A)(4)(o) and 901:10-2-16(A)(1)(a)(i) ☒ Yes ☐ No ☐ N/A
- **Is the vegetation near the manure storage pond or the manure treatment lagoon properly maintained?**
Rule 901:10-2-08(A)(4)(j) & (k) ☒ Yes ☐ No ☐ N/A
- **Are the maintenance inspections for stormwater conveyances, runoff diversion structures, devices channeling contaminated stormwater, etc. properly recorded in the operating record?**
Rules 901:10-2-16(A)(1)(a)(v) & 901:10-2-08(A)(4)(i), (j) ☒ Yes ☐ No ☐ N/A

V. MANURE MANAGEMENT

- **Is the schedule for manure removal or manure residual removal outlined in the manure management plan?**
Rules 901:10-2-08(A)(4)(g), 901:10-2-10(B), 901:10-2-16(A)(1)(c)&((e) ☒ Yes ☐ No ☐ N/A
- **List the number of acres utilized for land application. (Include both land that is owned and land that is leased).**
Rules 901:10-2-09(C), 901:10-2-16(A)(1)(c)(ii)

Acres owned	40
Acres leased	
Other land	
Total acres	40

- **Was manure applied on snow-covered or frozen ground?**
☐ Yes ☒ No ☐ N/A
- **If so, was the application site approved for application?**
☐ Yes ☐ No ☒ N/A

Distribution & Utilization

- **Is manure distributed through Distribution and Utilization methods?**
☒ Yes ☐ No ☐ N/A



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Comment: The layer manure will be sold thru D&U and under contract to Tim Wood. At the present time, only eggwash water will be applied thru the center pivot system. The stormwater is being discharged through the newly constructed Enhanced Treatment System and under an approved NPDES permit from OEPA.

- **If Distribution and Utilization method of manure removal was used, were Appendices A, B, F and the most recent manure analysis given to the recipient of the manure?**

Rule 901:10-2-16(A)(1)(e)(iv) & 901:10-2-11(A)

☒ Yes ☐ No ☐ N/A

- **Is the record for the Distribution and Utilization of manure maintained in the operation record?**

Rule 901:10-2-16(A)(1)(e)(ii)(iii) & 901:10-2-11(B)

☒ Yes ☐ No ☐ N/A

Soil Characteristics

- **Are all soil analysis properly recorded in the operating record for the last five years?**

Rule 901:10-2-16(A)(1)(c)(vi) & 901:10-2-13(D)

☒ Yes ☐ No ☐ N/A

(The analysis records must be taken every three years).

- **Are the soil samples representatives of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less?**

Rule 901:10-2-13(C)

☒ Yes ☐ No ☐ N/A

- **Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test?**

Rules 901:10-2-14(D)(E)(3) & 901:10-2-16(A)(1)(c)(xiii)

☒ Yes ☐ No ☐ N/A

* If so, list those fields.

Center Pivot. Pivot area is designated as follows with "P" Index:

4/6/2011

Field Number	Acres	P-Index Value	P-Index Category	Phosphorous
L3 Pivot A	19.56	28.50	Medium	307 ppm
L3 Pivot B	19.81	29.12	Medium	317 ppm

Comment: New soil samples and "P" Index must be taken by the spring of 2014 and a copy of the soil sample results and "P" Index must be maintained in the facility operating records.

Nutrient Budget

- **Is commercial fertilizer used?**

Rules 901:10-2-09(C)(2)

☒ Yes ☐ No ☐ N/A

* If so, list amount of commercial fertilizer used.

Rule 901:10-2-16(A)(1)(c)(xiv)



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Comment: Nitrogen is applied to corn at the recommended agronomic rate.

- Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(xiv)

☒ Yes ☐ No ☐ N/A

Thru 6/17/2013

Manure Type	Year 2011		Year 2012		Year 2013	
	Tons/gals	acres	Tons/gals	acres	Tons/gals	acres
EW/SW	7,227,500 gallons	Johnstown Treatment Plant	9,390,850 gallons	Johnstown Treatment Plant	15,059,245 gallons	ETS
EW/SW Center Pivot	12,559,000 gallons	40 acres	23,855,700 gallons	40 acres	None	
MSB - North					400 tons 5/29	Cooperrider 83 acres
MSB - South			650 tons	Blanton	435 tons 5/30	Cooperrider 90 acres

Cropping Schedules

- Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(viii)

☒ Yes ☐ No ☐ N/A

- Is the crop yield for each site properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(ix)

☒ Yes ☐ No ☐ N/A

Comment: In 2013, Hendren Farms planted the center pivot to corn.

- Is the actual crop yield for each site properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(xi)

☒ Yes ☐ No ☐ N/A

	2010	2011	2012	2013	2014
Crop	Soybeans	Corn	Soybeans	Corn	
Yield	59 bu/a	205 bu/a	64 bu/a		

Application Records – Section is N/A – Nothing is being applied

- If liquid manure is applied, are drain plugs being used?

Rule 901:10-2-16(A)(1)(c)(iv)

☐ Yes ☐ No ☒ N/A



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- **If liquid manure is applied, are observations of subsurface drains properly recorded in the operating record?**

Rule 901:10-2-16(A)(1)(c)(iii) & 901:10-2-14(G)(2)(a)[Winter only]

☐ Yes ☐ No ☒ N/A

- **Has the equipment for land application been inspected, maintained and properly recorded in the operating record?**

Rules 901:10-2-08(A)(2)

☒ Yes ☐ No ☐ N/A

Comment: Center pivot

- **Are there records in the operating record on soil conditions at times of application, such as soil cracks?**

Rule 901:10-2-16(A)(1)(c) (xvi)

☐ Yes ☐ No ☒ N/A

- **Are application rates and nutrients applied in accordance with ODA rules for nitrogen and phosphorus?**

Rule 901:10-2-14(D),(E)

☐ Yes ☐ No ☒ N/A

- **Are liquid application rates based on the Available Water Capacity chart?**

Rule 901:10-2-14(C)(1)(d)

☐ Yes ☐ No ☒ N/A

- **Are there records of general weather conditions, temperature and rainfall 24 hours before and after manure applications?**

Rules 901:10-2-12 and 901:10-2-16(A)(1)(c)(xvii)

☐ Yes ☐ No ☒ N/A

- **Are setbacks maintained and properly recorded in the operation record?**

Appendix A of Rule 901:10-2-14 and Rule 901:10-2-16(A)(1)(c)(vii)

☐ Yes ☐ No ☒ N/A

- **Is there evidence of documented use of vegetative cover to protect stream channels?**

Rules 901:10-2-14, including Appendix A and 901:10-2-16(A)(1)(c)(vii)

☐ Yes ☐ No ☒ N/A

VI. INSECT AND RODENT CONTROL

- **Is the insect and rodent control plan properly implemented by the owner or operator or manager?**

Rule 901:10-2-19 & 901:10-2-16(A)(1)(a)(viii)

☒ Yes ☐ No ☐ N/A

- **Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities?**

Rule 901:2-19(B)(3)(a)(i)

☒ Yes ☐ No ☐ N/A

- **Are these inspections properly recorded in the operating record?**

Rule 901:10-2-19(B)(3)(a)(iii)

☒ Yes ☐ No ☐ N/A

Comment: NMSB & SMSB reported as moderate flies on 6/2/2013 - sprayed with BP-100 and Ravap each day that week - also reported



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abundant larvae on 6/4-6/7 – there had been few larvae reported for 5/29-6/2. Manure was recorded as being wet. The 5/16/2013 manure moisture test results were over 60% and required that remedial actions to be taken must be reported to ODA. Those reported actions by Trillium management personnel were as follow:

South barn is being emptied; north barn middle pile is already removed, will install portable fans alternating rows every week, if moisture in the remaining two side increases manure will be turned over.

- **Is proper maintenance of the watering system properly recorded in the operating record?**

Rule 901:10-2-19(B)(3)(a)(ii)

☒ Yes

☐ No

☐ N/A

Comment: There have been no water leaks or repairs reported since 1/1/2013.

- **Are daily inspections of drinking water lines being made and recorded in the operating record?**

Rule 901:10-2-08(A)(4)(n) & 901:10-2-19(B)(3)(a)(ii)

☒ Yes

☐ No

☐ N/A

VII. MORTALITY MANAGEMENT

- **What type of mortality management does the facility have?**

Rule 901:10-2-15 and 901:10-2-16(A)(1)(f)(i)

Comment: Composting in manure rows of the Manure Storage Barn at Layer #1.

- **Are there inspection records properly recorded in the operating record on mortality?**

Rules 901:10-2-15 and 901:10-2-16(A)(1)(f)(ii)

☒ Yes

☐ No

☐ N/A

- **Are Best Management Practices being utilized?**

☒ Yes

☐ No

☐ N/A

VIII. OPERATING RECORD – GENERAL

- **Are all operating records up-to-date and available for review by the inspector?**

Rules 901:10-2-08 and 901:10-2-16

☒ Yes

☐ No

☐ N/A

- **Is a copy of the RCC, PTI, PTO and/or NPDES permit with the operating record or located in the site office?**

Rule 901:10-2-01(B)(3) for PTI

901:10-2-07(E) for PTO & NPDES

901:10-1-07 for RCC as being part of PTO

☒ Yes

☐ No

☐ N/A



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- Have the operating records been retained by the owner or operator for a minimum of five years?

Rule 901:10-2-16(A)(1)

☒ Yes

☐ No

☐ N/A

- Since the last inspection, have any operational changes been made at the facility?

Rule 901:10-1-09(F)

☐ Yes

☒ No

☐ N/A

IX. VISUAL INSPECTIONS AND OUTSIDE INFORMATION

Water Quality Impacts

- Is there evidence of actual offsite discharge?

Rules 901:10-2-08 and 901:10-2-16(A)(1)(a)

☐ Yes

☒ No

☐ N/A

- Are there areas of concern for water quality impacts?

Rules 901:10-2-08 and 901:10-2-16

☐ Yes

☒ No

☐ N/A

- Is the water well location maintained in a proper manner to avoid contamination? Rule 901:10-2-02(A)(1)&(2)

☒ Yes

☐ No

☐ N/A

- Facility upkeep and general appearance:

☐ Above average

☐ Below average

☒ Average - Construction

☐ Poor

Barn	Flies	Larvae	Comments
#29	F	F	Manure on the belts was dry – no evidence of past water leaks – Enriched cages – Barn was clean and well maintained
#31	F	F	Manure on the belts was dry – no evidence of past water leaks – Enriched cages – Barn was clean and well maintained
#41A	F	F	The manure on the belts was the was wet but drying – no water leaks were noticed
#42B	F	M	The manure on the belts was the was wet but drying – no water leaks were noticed – there was larvae in the pit along the curb and some on the belts
NMSB	M	M	The manure in this barn had good shape but was wet and over 60 % – manure was in two rows that were 2 ½ feet in height – the barn is baited – Maxcy recommended to fog every other day as needed - RaVap the top four feet every four days - start Flyzine for four weeks – would like to see manure removed weekly to break fly cycle



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SMSB	M	M	The manure in this barn was wet and slumped – manure in the middle of the barn has been removed ~ ¾ the length of the barn – manure is being placed on the east side – plans are to remove the manure on the west side – Maxcy recommended to remove the middle of the manure - Fog every other day as needed - RaVap 10 feet wide on the east row of the barn and Flyzine for four weeks until all of the manure can be removed
SW			Below outlet pipe to ETS pond
EW			Good condition
ETS			The Enhanced Treatment System is currently discharging as designed and as approved by OEPA.

Barn	Barn Condition
#30 & #32- #41	New inner and outer skin – new floor – air intake and fans installed – Cages installed – feed bins installed and lines ran – #30 & #32 nearly ready to stock
#42	New roof, fans, inner skin, outer green skin, and new block – ready for cages

- Trimming and 3 foot vegetative buffer strip are not being completed as required in the IRCP. . There is stone around both of the MS Barns.

Describe the upkeep and general appearance of the following:

	Above Average	Average	Below Average	Poor	Comments
Diversion Ditches		X			
Diversion Dikes					
Berms					
Embankments	X				Stoned
Pipe Runs					
Grassed Waterways	X				
Vegetative Cover			X		Mowed but not sprayed or trimmed – no 3 foot vegetative buffer strips
Contour Grass Strips					
Settling Basins					
Feed System	X				
Storage Areas	X				
Watering System	X				



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Walkways or Walk Areas Inside Building	X				Very clean
Walkways or Walk Areas Outside Building	X				
Feed Alleys					
Chemicals					
Screens					
Ventilation Systems, i.e. Fans		X			
Others					

X. SUMMARY

- Were the results of the inspection discussed with the owner, operator, manager, representative, or livestock manager?

☒ Yes

☐ No

☐ N/A

The results will be sent to either the owner, operator, manager, representative or livestock manager.

Required Actions:

- By August 15, 2013, a 3 foot vegetative buffer strip must be established and maintained around the perimeter of all barns at the facility.
- Continue to complete all the recommendations made by the professional entomologist and the requirements outlined in the IRCP. These actions taken must continue to be recorded in the facility operating records.

Recommended Actions:

Reminder Actions:

- New soil samples and "P" Index must be taken by the spring of 2014 and a copy of the soil sample results and "P" Index must be maintained in the facility operating records.

"I certify that this information was reviewed by the inspector and/or the owner, operator, manager, representative or livestock manager of the facility."

Signature of Owner, Operator, Manager,
Representative or Livestock Manager

Date

Signature of Inspector

Date



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Dick Rowley, representing Trillium Farms, signed this inspection on June 19, 2013 and Jim Young representing the Ohio Department of Agriculture also signed the report. The records portion of this inspection was done with Sheryl Logue. Those present during the inspection were – Dick Rowley, Maxcy Nolan, Santos Duran, Dave Haseman, Ramchand Almor, Eugenio Mendoza, Daniel Castro, Christine Pence, and Jim Young.

Cc: Kelly, McCloud - Assistant Attorney General, Ohio Attorney General's Office
Orland Bethel – Ohio Fresh Eggs
J.T. Dean – Trillium Farms
Doug Mack – Trillium Farms
Dick Rowley – Trillium Farms
Dave Hasemann - Trillium Farms
Ramchano Almor – Trillium Farms
Sheryl Logue - Trillium Farms
Tabi Smith - Trillium Farms
Jim Kiracofe - Licking SWCD
Kirk Hines – ODNR-DSWR
Kevin Elder – Division Chief ODA-DLEP
Andy Ety – Engineer ODA-DLEP
Maxcy Nolan – Professional Entomologist



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Department of
Agriculture

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
A.B. Graham Building
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Inspector Christine Pence
Inspection Start Time 2:00 p.m.

Date of Inspection 4/2/2014

Type of Inspection

1st Routine ☐ 2nd Routine ☒
3rd Routine ☐ Other ☐

Facility

Owner\Operator

Name	Miami Valley Dairy, LLC			Name	same		
Address	9235 Wildman Rd.			Address			
City	South Charleston	Zip	45368	City		Zip	
Phone	937-462-8477			Phone			
Email	miamivalleydairy@yahoo.com			Email			

Contact Person

Name	Sybrand T.C. (Ted) vanRaaij	Telephone	937-462-8477
Email	miamivalleydairy@yahoo.com	Cell	740-605-8823

Permit Information

Permit Number	12-183-PTO-002	Expiration Date	6/18/2018
Permit Modification		Effective Date	
Major Operational Change		Effective Date	

Certified Livestock Manager

Name	Certificate Number	Expiration Date	CEUs / Date
Sybrand T.C. (Ted)vanRaaij	24	12/31/2013-expired	5.5 ~ 4/7/14
Nick Anderson	224	12/31/2015	5.5 ~ 4/7/14

ODA-DLEP received the CLM Renewal application on 12/23/13; however, because you did not acquire the 10 required CEU, your CLM certification has expired.

Bio-security Information:

Inspector followed facility or industry bio-security plan
(whichever is more stringent)

Yes ☒ No ☐ N/A ☐

I. FACILITY OPERATION INFORMATION

Number and Type of Animals

Animal Type	Existing Number of Animals (leave blank if facility is new)	Maximum Number of Animals (for new or expanding facilities)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)	1,525	1,500
Swine over 55 pounds		
Swine under 55 pounds		
Laying hens		
Broilers		
Pullets		
Other:		

Number of Employees	14
Type of Feed System	solid

II. WATER SYSTEM

Water Supply Sources

- Is there a well located at the facility?

Yes ☒ No ☐ N/A ☐

How Many? 2

- Is water treatment used?

Yes ☒ No ☐ N/A ☐

If so, where does back flush go?

Water softener backflush goes to the contaminated stormwater pond.

Drinking Groundwater Sampling

- Are records of the groundwater sampling analysis properly recorded in the operation record?

Yes ☒ No ☐ N/A ☐

List the dates of the last samples taken.

Groundwater Sample Results

Date	Well	Nitrate	TCR
12/5/10	Barn faucet	.05 mg/l	None
3/11/11	Barn faucet	.05 mg/l	Neg.
2/16/12	Barn faucet	.05 mg/l	Neg.
8/8/12	Barn faucet	.13 mg/l	Neg.
9/24/13	Barn faucet	.38 mg/l	Neg.

The 2014 well analysis is due on or around September 24, 2014.

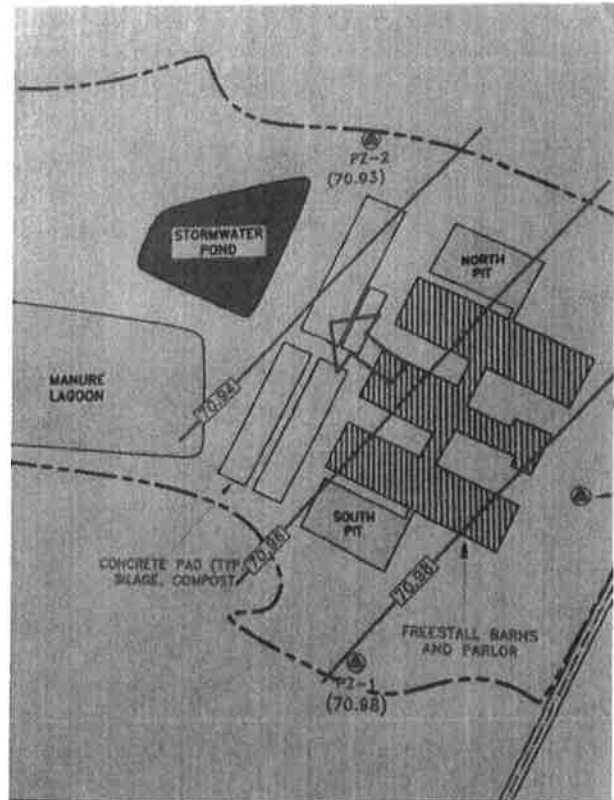
Groundwater Monitoring

- Are groundwater monitoring wells required?
If yes, list results.

Date	Well	Nitrate	Coliform Bacteria
2/16/12	PZ1	.05 mg/l	Neg. Total Coliform
2/16/12	PZ2	.05 mg/l	Neg. Total Coliform
2/16/12	PZ3	.05 mg/l	Neg. Total Coliform
11/13/12	PZ1	.06 mg/l	Pos. TC/ Neg E.Coli
11/13/12	PZ2	.06 mg/l	Pos. TC/Neg. E.coli
11/13/12	PZ3	<.05 mg/l	Neg. TC
3/26/13	PZ1	.16 mg/l	Pos. TC/ Neg E.Coli
3/26/13	PZ2	<.05 mg/l	Pos. TC/Neg. E.coli
3/26/13	PZ3	<.05 mg/l	Neg. TC
9/24/13	PZ1	ND	Pos TC/Neg E. Coli
9/24/13	PZ2	.85 mg/l	Pos TC/Pos E. Coli (<1CFU/100 ml)
9/24/13	PZ3	ND	Pos TC/Neg E.Coli

ODA-DLEP will continue to monitor the results from PZ1 and PZ2 during the next sampling cycles due to the Positive Total Coliform Results from the November, 2012; March and September 2013 sampling events. PZ1 and PZ3 are upstream and PZ2 is downstream of manure storage structures. Spence Environmental have conducted the tests since 2012 and at this sampling event indicated that the groundwater flow is toward the northwest (or PZ2). Spence also noted the Total Coliform tests; however, they indicated that none of the wells contained E. Coli above the detection limit of 1 CFU/100 ml.

Yes ☒ No ☐ N/A ☐



Agricultural Drainage Well

- Is there indication of an agricultural drainage well (Class V well) on the property?

If yes, is the agricultural drainage well likely to have runoff?

Yes ☐ No ☒ N/A ☐

Yes ☐ No ☐ N/A ☒

Other Waste, Chemicals and Contaminants

- Is there a sanitary permit for this facility?

Yes ☒ No ☐ N/A ☐

- If yes, does the sanitary go to the manure storage and treatment facility?

Yes ☐ No ☒ N/A ☐

- If yes, is it permitted to do so?

Yes ☐ No ☐ N/A ☒

- Are all other waste, including medical waste, cleaning solutions, pesticides, fertilizers, herbicides and other contaminants stored/handled in a manner that will not discharge into a manure storage or treatment facility? Yes ☒ No ☐ N/A ☐
- If no, provide brief explanation and if the discharge into the manure storage or treatment facility is permitted/allowed.

III. MANURE STORAGE AND TREATMENT FACILITIES

Type of Manure

(check all that apply)

Liquid ☒ Solid ☒

- Annual manure analysis on file?

Yes ☒ No ☐ N/A ☐

Manure Sample Results (Solids measured in #/ton – liquid measured in #/1,000g)

Type	Date	Moisture %	Total N	NH ₄ -N	Organic N	P ₂ O ₅	K ₂ O
<i>Mortality compost (solid)</i>	2012	<i>Did</i>		<i>Not</i>	<i>Sample</i>		
<i>SW pond (pivot app)</i>	3/6/12	99.81	4.15	.01%*	-	.32	1.35
<i>Mortality Compost (solids)</i>	3/6/12	66.70	28.6	.57%	-	48.35	10.63
<i>manure pit(s) (solids)</i>	1/10/12	36.8	4.4	.11%	-	2.32	4.25
<i>Manure pond (liquid) agitated</i>	1/10/12	98.1	14.94	.12%	-	3.39	11.37
<i>Manure pond (liquid) agitated</i>	3/21/12	95.1	19.92	.14%	-	7.64	13.3
<i>Manure pond (liquid) agitated</i>	9/18/12	95.31	16.5	7.0	9.6	10.4	20.9
<i>Manure pond (liquid) agitated</i>	9/19/12	95.05	13.9	7.0	7.0	11.3	19.1
<i>Manure pit sand solids</i>	10/23/12	15.42	2.8	0	2.6	2.4	2.0
<i>SW Pond</i>	11/14/12	99.83	.04	-	-	<.01	.04
Mortality Compost	2/6/13	58.02	8.2	1.8	6.4	7.4	5.8
Manure pond (from applicator)	2/6/13	91.28	24.4	11.3	13.0	10.4	28.7
Manure pond (from applicator)	2/6/13	92.6	24.4	11.3	13.0	10.4	28.7
Manure pond (from applicator)	5/31/13	95.72	13.9	6.1	7.8	8.7	17.4
Manure pond (from applicator)	9/10/13	96.16	46.1	23.5	22.6	9.6	15.7
Manure pond (D-25)	9/23/13	95.82	12.2	5.2	7.0	8.7	15.7
Manure pond (Wilt)	12/5/13	94.52	40.9	20.9	20.0	10.4	14.8
Manure solids	12/6/13	25.13	3.0	.8	2.2	2.8	2.2
SW Pond	1/9/14	99.69	<.01	<.01	<.01	<.01	<.01

- Type of manure storage or treatment facility:

(Check all that apply)

Fabricated Structures

☒ Manure storage pond ☒ Manure treatment lagoon ☐

Combination

☐

2 sand settling basins

1 manure pond

2 sand dewatering pads

1 stormwater/leachate pond

1 compost pad

Fabricated Structure

- Type of fabricated structure:

(Check all that apply)

Stacking pad/bunker/etc

☒ Concrete block or stave pit ☒

Deep pit

☐ Above ground tank (metal/concrete/other) ☐

High-rise ☐ Manure storage barn (for belt-battery, etc) ☐
 Compacted earthen floor concrete pit ☐ Other ☐

- Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff? Yes ☒ No ☐ N/A ☐

- Are records maintained on storage capacity or manure volume? Yes ☒ No ☐ N/A ☐

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge? Yes ☒ No ☐ N/A ☐

- Do the inspections match the frequency in the manure management plan? Yes ☒ No ☐ N/A ☐

- Are these regular inspections properly recorded in the operating record? Yes ☒ No ☐ N/A ☐

Structure	Date	Maximum Operating Level	Current Manure Level
N. sand basin	3/28/14	9.5'	Ok - < 7'
S. sand basin	3/28/14	9.5'	Ok - < 7'

Continue inspections of these fabricated concrete manure holding structures weekly for Operating Levels and structural integrity. Also continue to inspect each of the two perimeter drain sump pumps located at each basin to ensure they continue to function properly. You have been doing a good job of maintaining low levels in these pits by routinely transferring liquid to the manure storage pond.

Manure Storage Pond or Manure Treatment Lagoon

- Type of manure storage pond or manure treatment lagoon (and approximate dimensions)
(Check all that apply)

Earthen manure storage pond ☒ Earthen manure treatment lagoon ☐ N/A ☐

(Explain number of ponds/lagoons, type of liner system installed (plastic, re-compacted soil, insitu soil, etc.))

Structure	Maximum Operating Level	Storage capacity	Current Level -3/28/14
Manure pond	16' + 1.7' FB	14,343,249 gal.	12'
Stormwater pond	10' + 2' FB	4,626,763 gal.	10'

Equipment was being set up to conduct manure application on surrounding fields.

- Is there twelve-inches of freeboard, plus the volume needed to contain the appropriate design storm, if the structure is subject to rainfall and runoff? Yes ☒ No ☐ N/A ☐

- Are records maintained on storage capacity or manure volume? Yes ☒ No ☐ N/A ☐

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge? Yes ☒ No ☐ N/A ☐

- Is there evidence in the operating record of weekly inspections of stormwater conveyances, diversion devices and devices channeling contaminated stormwater to the manure storage pond or manure treatment lagoon?
Yes ☒ No ☐ N/A ☐
- Do the inspections match the frequency in the manure management plan?
Yes ☒ No ☐ N/A ☐
- Are these regular inspections properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Is the level indicator(s) conspicuously located and properly functioning in the manure storage pond or manure treatment lagoon?
Yes ☒ No ☐ N/A ☐
- Is the vegetation near the manure storage pond or the manure treatment lagoon properly maintained?
Yes ☒ No ☐ N/A ☐
- Are the maintenance inspections for stormwater conveyances, runoff diversion structures, devices channeling contaminated stormwater, etc. properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐

IV. MANURE MANAGEMENT

- Is the schedule for manure removal or manure residual removal outlined in the manure management plan?
Yes ☒ No ☐ N/A ☐

Very detailed records maintained. In 2013 through December 5, a total of 14,249,054 gallons of manure applied from the manure storage pond; 2,430,000 gallons of contaminated stormwater applied through the center pivot; 960 tons of waste feed and 1,570 tons of sand solids applied. All applied to land in the MMP.

DATE	SOURCE	DESTINATION	APP RATE	ACRES	TOTAL AMOUNT (G)	SOIL P	SOIL TEST DATE
3/27-28/14	MS POND	Chuck	12,816	98	1,256,000 g		
3/28/14	MS POND	Chuck	13,206	29	382,974 g		
3/24-25/14	Sand Solids	D-12/D-25-perimeter	60 t/a	30	1,800 t		
3/26/14	MS POND	Chuck	13,315	19	253,000 g		
1/16-17/14	Sand solids	D-13-perimeter	60 t/a	25	1,500 t		
3/21/14	MS POND	D-6	13,000	50	650,000 g		
3/25/14	MS POND	D-12	13,000	45	585,000 g		
3/25/14	MS POND	D-13	13,000	23	299,000 g		
3/22/14	MS POND	D-22	13,000	41	533,000 g		
3/24-25/14	MS POND	Dt-25	13,000	57.5	747,500 g		

*These field ID's do not match what is in the current permit. It appears your ID's were from the former PTO. Take time to correlate the old field ID's with the new ID's.

- List the number of acres utilized for land application. (Include both land that is owned and land that is leased).

Acres owned	
Acres leased	
Other land	
Total acres	1074

- Was manure applied on snow-covered or frozen ground?
Yes ☐ No ☒ N/A ☐
- * If so, was the application site approved for application?

Yes ☐ No ☐ N/A ☒

- Is manure distributed through Distribution and Utilization methods?

Yes ☐ No ☒ N/A ☐

- If Distribution and Utilization method of manure removal was used, were Appendices A, B, F and the most recent manure analysis given to the recipient of the manure?

Although manure is not removed through D&U since MVD is

responsible for the manure application, each recipient receives updated copies of manure analyses.

Yes ☐ No ☐ N/A ☒

- Is the record for the Distribution and Utilization of manure maintained in the operation record?

Yes ☐ No ☐ N/A ☒

Soil Characteristics

- Are all soil analysis properly recorded in the operating record for the last five years?
(The analysis records must be taken every three years)

Yes ☒ No ☐ N/A ☐

- Are the soil samples representative of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less?

Yes ☒ No ☐ N/A ☐

- Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test?

* If so, list those fields.

Yes ☐ No ☒ N/A ☐

Soil tests are due in 2014 on fields in the current PTO named 7, 18, 19, 22, 23, 24a and 25. The remaining fields in the PTO are due in 2015.

Nutrient Budget

- Is commercial fertilizer used?

Yes ☐ No ☒ N/A ☐

*If so, list amount of commercial fertilizer used

- Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

Cropping Schedules

- Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

- Is the crop yield for each site properly recorded in the operating record?

Yes ☐ No ☒ N/A ☐

- Is the actual crop yield for each site properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

Continue to maintain these records. In 2013, corn silage yielded an average of 21 ton/acre.

Application Records

- If liquid manure is applied, are drain plugs being used?
Yes ☒ No ☐ N/A ☐
- If liquid manure is applied, are observations of subsurface drains properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Has the equipment for land application been inspected, maintained and properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Are there records in the operating record on soil conditions at times of application, such as soil cracks?
Yes ☒ No ☐ N/A ☐
- Are application rates and nutrients applied in accordance with ODA rules for nitrogen and phosphorus?
Yes ☒ No ☐ N/A ☐
- Are liquid application rates based on the Available Water Capacity chart?
Yes ☒ No ☐ N/A ☐
- Are there records of general weather conditions, temperature and rainfall 24 hours before and after manure application?
Yes ☒ No ☐ N/A ☐
- Are setbacks maintained and properly recorded in the operation record?
Yes ☒ No ☐ N/A ☐
- Is there evidence of documented use of vegetative cover to protect stream channels?
Yes ☒ No ☐ N/A ☐

V. INSECT AND RODENT CONTROL

- Is the insect and rodent control plan properly implemented by the owner or operator or manager?
Yes ☒ No ☐ N/A ☐
- Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities?
Yes ☒ No ☐ N/A ☐
- Are these inspections properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Is proper maintenance of the watering system properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Are daily inspections of drinking water lines being made and recorded in the operating record?
Yes ☒ No ☐ N/A ☐

VI. MORTALITY MANAGEMENT

- What type of mortality management does the facility have?

Prior to this inspection, mortality was placed on the concrete contained area between the commodity barn and stormwater pond, then removed and transported to a landfill. Ted is a licensed hauler through ODA. Since this inspection, mortality is still staged in the same location; however it is now transported to Standard Fertilizer in Indiana.

- Are there inspection records properly recorded in the operating record on mortality?

Yes ☒ No ☐ N/A ☐

- Are Best Management Practices being utilized?

Yes ☒ No ☐ N/A ☐

VII. OPERATING RECORD – GENERAL

- Are all operating records up-to-date and available for review by the inspector?

Yes ☒ No ☐ N/A ☐

- Is a copy of the RCC, PTI, PTO and/or NPDES permit with the operating record or located in the site office?

Yes ☒ No ☐ N/A ☐

- Have the operating records been retained by the owner or operator for a minimum of five years?

Yes ☐ No ☒ N/A ☐

- Since the last inspection, have any operational changes been made at the facility?

Yes ☐ No ☒ N/A ☐

VIII. VISUAL INSPECTIONS AND OUTSIDE INFORMATION

Water Quality Impacts

- Is there evidence of actual offsite discharge?

Yes ☐ No ☒ N/A ☐

- Are there areas of concern for water quality impacts?

Yes ☐ No ☒ N/A ☐

- Is the water well location maintained in a proper manner to avoid contamination?

Yes ☒ No ☐ N/A ☐

Describe the upkeep and general appearance of the following

	Above Average	Average	Below Average	Poor	Comments
Dikes and Diversion Ditches		x			
Berms		x			
Embankments		x			
Pipe Runs					
Grassed Waterways		x			
Vegetative Cover		x			
Settling Basins	x				
Feed System	x				
Storage Areas	x				
Watering System	x				
Walkways or Walk Areas Inside Building	x				
Walkways or Walk Areas Outside Building	x				
Ventilation Systems, i.e. Fans					
Others					

VIII. SUMMARY

Were the results of the inspection discussed with the owner, operator, manager, representative or livestock manager? Yes ☒ No ☐ N/A ☐

Required Actions:

- Carefully monitor cow numbers at this facility. The permitted animal capacity is 1,500 cows and shall not be exceeded on a continual basis.
- The field ID's for the manure do not match what is in the current permit. It appears your ID's were from the former PTO. Take time to correlate the old field ID's with the new ID's.
- Forward results of the Spring, 2014 groundwater monitoring well analyses to Christine Pence upon completion by NPE, which were scheduled to be collected on May 19, 2014.
- Soil tests are due in 2014 on fields in the current PTO named 7, 18, 19, 22, 23, 24a and 25. The remaining fields in the PTO are due in 2015.

"I certify that this information was reviewed with the owner, operator, manager, or representative of the facility."

Christine Pence

Signature of Inspector

4/2/14

Date

Cc: Clark SWCD



Department of
Agriculture

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
A.B. Graham Building
8995 East Main Street, Reynoldsburg, OH 43068
Phone: 614-387-0470 • Fax: 614-728-6335
www.agri.ohio.gov • lepp@agri.ohio.gov

Inspector **Dan Bruner**

Date of Inspection **5/1/2014**

Inspection Start Time **4:30 pm**

All questions pertaining to on-site inspections are not answered since on-site inspection was not made due to biosecurity precautions concerning the PEDv outbreak. Jim and Chris Pessefall were present for the inspection.

Type of Inspection

1st Routine ☒ 2nd Routine ☐ 3rd Routine ☐ Other ☐

Facility

Owner\Operator

Name	Pessefall Farms LLC			Name	Same		
Address	12742 Road 191			Address			
City	Oakwood	OH	45873	City			
Phone	419-594-2120			Phone			
Email	Pressefallfarms21@gmail.com			Email			

Contact Person

Name	Chris Pessefall	Telephone	
Email		Cell	419-438-0879

Permit Information

Permit Number	63-120-PTO-001	Expiration Date	11/4/2016
Permit Modification		Effective Date	
Major Operational Change		Effective Date	

Certified Livestock Manager

Name	Certificate Number	Expiration Date	CEUs / Date

Bio-security Information:

Inspector followed facility or industry bio-security plan
(whichever is more stringent)

Yes ☒ No ☐ N/A ☐

No swine contact for 72 hours prior. Disposable boots to be worn and left at the facility. Met in farm shop off site and went over records.

I. FACILITY OPERATION INFORMATION

Number and Type of Animals

Animal Type	Existing Number of Animals (leave blank if facility is new)	Maximum Number of Animals (for new or expanding facilities)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)		
Swine over 55 pounds	4,850	5,200
Swine under 55 pounds		
Laying hens		
Broilers		
Pullets		
Other:		

Number of Employees	Family
Type of Feed System	Solid

II. WATER SYSTEM

Water Supply Sources

- Is there a well located at the facility?

Yes ☒ No ☐ N/A ☐

How Many? 2

Two wells on site that feed a fresh water pond.

- Is water treatment used?

Yes ☐ No ☒ N/A ☐

If so, where does back flush go?

Drinking Groundwater Sampling

- Are records of the groundwater sampling analysis properly recorded in the operation record?

Yes ☒ No ☐ N/A ☐

List the dates of the last samples taken.

Groundwater Sample Results

Date	Well	TCR	Nitrate
11-11-2010	Between Barns 1 & 2	<0.1 ppm	
3-14-2011	Between Barns 1 & 2		Neg.
10-30-13	Between Barns 1 & 2	<0.1 ppm	Neg.

Groundwater Monitoring

- Are groundwater monitoring wells required? Yes ☐ No ☒ N/A ☐
If yes, list results.

Agricultural Drainage Well

- Is there indication of an agricultural drainage well (Class V well) on the property? Yes ☐ No ☒ N/A ☐
If yes, is the agricultural drainage well likely to have runoff? Yes ☐ No ☐ N/A ☒

Other Waste, Chemicals and Contaminants

- Is there a sanitary permit for this facility? Yes ☒ No ☐ N/A ☐
 - If yes, does the sanitary go to the manure storage and treatment facility? Yes ☐ No ☒ N/A ☐
 - If yes, is it permitted to do so? Yes ☐ No ☐ N/A ☒
- Are all other waste, including medical waste, cleaning solutions, pesticides, fertilizers, herbicides and other contaminants stored/handled in a manner that will not discharge into a manure storage or treatment facility? Yes ☒ No ☐ N/A ☐
- If no, provide brief explanation and if the discharge into the manure storage or treatment facility is permitted/allowed.

III. MANURE STORAGE AND TREATMENT FACILITIES

Type of Manure

(check all that apply) Liquid ☒ Solid ☐

- Annual manure analysis on file? Yes ☒ No ☐ N/A ☐

Manure Sample Results (Solids measured in #/ton – liquid measured in #/1,000g)

Barn	Date	Moisture %	NH ₄ -N	Organic N	P ₂ O ₅	K ₂ O
1	3-14-11	97.54	30.4	4.8	8.6	31.9
2	3-14-11	95.09	31.6	10.2	16.4	34.5
1	11-2-12	94.47	22.2	16.7	15.1	25.0
2	11-2-12	95.94	20.7	12.0	8.7	21.0
1	8-6-13	95.44	32.5	10.2	11.5	27.4
2	8-6-13	95.72	28.9	11.7	10.5	25.6
3	8-6-13	96.77	39.8	7.7	5.4	27.4
4	8-6-13	96.03	34.0	9.8	16.5	28.6
Sep. Solids	5-21-13	67.32	10.5	12.9	45.4	6.6

Separated Solids is manure separated using a centrifuge.

- Type of manure storage or treatment facility:

(Check all that apply)

Fabricated Structures ☒ Manure storage pond ☐ Manure treatment lagoon ☐
Combination ☐

Fabricated Structure

- Type of fabricated structure:

(Check all that apply)

Stacking pad/bunker/etc ☐ Concrete block or stave pit ☐
Deep pit ☒ Above ground tank (metal/concrete/other) ☐
High-rise ☐ Manure storage barn (for belt-battery, etc) ☐
Compacted earthen floor concrete pit ☐ Other- ☐

- Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff?
Yes ☒ No ☐ N/A ☐

- Are records maintained on storage capacity or manure volume?

Yes ☒ No ☐ N/A ☐

Structure	Date	Maximum Operating Level	Current Manure Level	Storage remaining
Barn 1	4-27-14	84"	71"	13"
Barn 2	4-27-14	84"	70"	14"
Barn 3	4-27-14	84"	63"	21"
Barn 4	4-27-14	84"	62"	22"

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?

Yes ☒ No ☐ N/A ☐

- Do the inspections match the frequency in the manure management plan?

Yes ☒ No ☐ N/A ☐

Inspections documented.

- Are these regular inspections properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

Manure Storage Pond or Manure Treatment Lagoon - NA

- Type of manure storage pond or manure treatment lagoon (and approximate dimensions)

(Check all that apply)

Earthen manure storage pond ☐ Earthen manure treatment lagoon ☐ N/A ☒

(Explain number of ponds/lagoons, type of liner system installed (plastic, re-compacted soil, in-situ soil, etc.))

IV. MANURE MANAGEMENT

- Is the schedule for manure removal or manure residual removal outlined in the manure management plan? Yes ☒ No ☐ N/A ☐

- List the number of acres utilized for land application. (Include both land that is owned and land that is leased).

Acres owned	105
Acres leased	
Other land	936.5
Total acres	1041.5

- Was manure applied on snow-covered or frozen ground? Yes ☐ No ☒ N/A ☐
* If so, was the application site approved for application? Yes ☐ No ☐ N/A ☒
- Is manure distributed through Distribution and Utilization methods? Yes ☒ No ☐ N/A ☐
- If Distribution and Utilization method of manure removal was used, were Appendices A, B, F and the most recent manure analysis given to the recipient of the manure? Yes ☒ No ☐ N/A ☐
- Is the record for the Distribution and Utilization of manure maintained in the operation record? Yes ☒ No ☐ N/A ☐

Date	Source	Amount	Destination
8-4,5	Barn 1	336,000 gal.	Evan Schlachter
8-4,5	Barn 2	251,000 gal.	Evan Schlachter
8-4,5	Barn 3	385,000 gal.	Evan Schlachter
8-4-5	Barn 4	410,000 gal.	Evan Schlachter

No manure has been moved since the last inspection.

Soil Characteristics

- Are all soil analysis properly recorded in the operating record for the last five years? (The analysis records must be taken every three years) Since permitted. Yes ☒ No ☐ N/A ☐
- Are the soil samples representative of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less? Yes ☒ No ☐ N/A ☐

- Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test?

* If so, list those fields.

Yes ☐ No ☒ N/A ☐

Nutrient Budget

- Is commercial fertilizer used?

Yes ☒ No ☐ N/A ☐

*If so, list amount of commercial fertilizer used

Corn: 7.5 gallons of starter. Half 28% and half 10-34-0.

Wheat: 200# of urea top-dress.

- Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

Cropping Schedules

- Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

- Is the crop yield for each site properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

- Is the actual crop yield for each site properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

Crop	2012	2013	2014	2015	2016
Corn	110 bpa	220 bpa			
Wheat	55 bpa				
Soybeans	30 bpa	50 bpa			

Application Records- NA

All manure is applied using the Distribution and Utilization method.

V. INSECT AND RODENT CONTROL

- Is the insect and rodent control plan properly implemented by the owner or operator or manager?

Yes ☒ No ☐ N/A ☐

- Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities?

Weekly

Yes ☒ No ☐ N/A ☐

- Are these inspections properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

- Is proper maintenance of the watering system properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Are daily inspections of drinking water lines being made and recorded in the operating record?
Water meters are used and information is recorded daily. Yes ☒ No ☐ N/A ☐

VI. MORTALITY MANAGEMENT

- What type of mortality management does the facility have?
Incineration
- Are there inspection records properly recorded in the operating record on mortality?
Yes ☒ No ☐ N/A ☐
- Are Best Management Practices being utilized?
Yes ☒ No ☐ N/A ☐

VII. OPERATING RECORD – GENERAL

- Are all operating records up-to-date and available for review by the inspector?
Yes ☒ No ☐ N/A ☐
- Is a copy of the RCC, PTI, PTO and/or NPDES permit with the operating record or located in the site office?
Yes ☒ No ☐ N/A ☐
- Have the operating records been retained by the owner or operator for a minimum of five years?
Yes ☒ No ☐ N/A ☐
Since Permitting
- Since the last inspection, have any operational changes been made at the facility?
Yes ☐ No ☒ N/A ☐

VIII. VISUAL INSPECTIONS AND OUTSIDE INFORMATION

These questions pertaining to on-site inspections are not answered since on-site inspection was not made due to biosecurity precaution concerning the PEDv.

Water Quality Impacts

- Is there evidence of actual offsite discharge? Yes ☐ No ☐ N/A ☐
- Are there areas of concern for water quality impacts? Yes ☐ No ☐ N/A ☐

- Is the water well location maintained in a proper manner to avoid contamination?

Yes ☐ No ☐ N/A ☐

Describe the upkeep and general appearance of the following

	Above Average	Average	Below Average	Poor	Comments
Dikes and Diversion Ditches					
Berms					
Embankments					
Pipe Runs					
Grassed Waterways					
Vegetative Cover					
Settling Basins					
Feed System					
Storage Areas					
Watering System					
Walkways or Walk Areas Inside Building					
Walkways or Walk Areas Outside Building					
Ventilation Systems, i.e. Fans					
Others					

VIII. SUMMARY

Were the results of the inspection discussed with the owner, operator, manager, representative or livestock manager?

Yes ☒ No ☐ N/A ☐

The results of this inspection were discussed with Chris and Jim Pessefall at the time of the inspection. Excellent set of records.

Required Actions:

Reminder Actions:

1. Manure samples must be taken annually from each storage before or during application and maintained in the facility operating records.
2. New water sample must be taken by no later than November 1, 2014.

Recommended Actions:

"I certify that this information was reviewed with the owner, operator, manager, or representative of the facility."

Daniel A. Bremer

Signature of Inspector

5-1-2014

Date

Attachment:

Cc:



Department of
Agriculture

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
A.B. Graham Building
8995 East Main Street, Reynoldsburg, OH 43068
Phone: 614-387-0470 • Fax: 614-728-6335
www.agri.ohio.gov • lepp@agri.ohio.gov

INSPECTION FORM
I. FACILITY INFORMATION

Name of Inspector: Mark Fritz
Inspection Start Time: 9:05 a.m.

Date of Inspection: 5-19-2014

Purpose of Inspection:

- ☒ 1st Routine (1 of 1)
☐ 2nd Routine
☐ Partial

- ☐ Complaint
☐ Enforcement
☐ Other

Facility:

Rule 901:10-2-01(C)(1)

Heartland Quality Egg Farm

9800 Co. Rd. 26

West Mansfield, OH 43358

Phone: 937-355-5103 fax: 937-355-4565

Owner/Operator:

Rule 901:10-2-01(C)(1)

Weaver Brothers, Inc.

895 E. Main St.

Versailles, OH 45380

Phone: 937-526-3331 fax: 937-526-3391

Tim Weaver, President

tweaverwbi@embarqmail.com

Contact Person (if not owner/operator):

Steve Langston

9800 Co. Rd. 26

West Mansfield, OH 43358

Office – 937-526-3914

Cell – 937-604-2334

Email: slangston_wbi@yahoo.com

Phil Ross, Manager

9800 Co. Rd. 26

West Mansfield, OH 43358

Phone: 937-355-5103 fax: 937-355-4565

PERMIT NUMBER: 46-164-PTO-002

Expiration Date: May 9, 2018

Permit Modification:

Date Effective:

Major Operational Changes:

Date Effective:

Livestock Manager Name: Steve Langston #116; Phil Ross #105 (Rick Moore is no longer a CLM)

Rule 901:10-1-06



Name	Certificate Number	Expiration of Certificate	Current Credits	Additional Credits Needed
Steve Langston	#116	12/31/2016	0	10
Phil Ross	#105	12/31/2016	0	10

Biosecurity Information:

Rule 901:10-5-02(B)

Biosecurity suit worn; no exposure to poultry in previous 48 hours. No restriction on previous swine exposure.

Inspector followed facility or industry biosecurity plan ☒ Yes ☐ No ☐ N/A
☐ whichever is more stringent

II. FACILITY OPERATION INFORMATION

Number and Type of Animals

Rule 901:10-2-01(C)(2) and 901:10-1-07(A)(2)

Animal Type	Existing Number of Animals (leave blank if new)	Maximum Number of Animals (for new or expanding)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)		
Swine Over 55 pounds		
Swine Under 55 pounds		
Horses		
Sheep or lambs		
Turkeys		
Laying hens	1,514,557	1,754,910
Broilers		
Duck		
Pullets		
Others:		

House #1 = 286,886

House #2 = 300,728

House #3 = 244,680

House #4 = 138,282 HR

House #5 = 142,016 HR

House #6 = 148,199 HR

House #7 = 253,766

Number of Employees: 20

Type of Feed System: Solid



III. WATER SYSTEM

Water Supply Sources

Rule 901:10-2-08

- Is there a well located at the facility? ☒ Yes ☐ No ☐ N/A
How Many: 5

- Is water treatment used: ☒ Yes ☐ No ☐ N/A

If so, where does backflush water go?

Iron filtration and peroxide injection is used. Approximately 1,600 gallons per day of backflush goes to 1st stage lagoon.

Drinking Groundwater Sampling

- Are records of the groundwater sampling analysis properly recorded in the operation record? ☒ Yes ☐ No ☐ N/A

List the dates of the last samples taken.

Groundwater Sample Results

Date	Well	Nitrate	TCR	E. coli
3-24-09	#1	<0.10 ppm	Neg.	
4-5-10		<0.10	Neg.	
6/13/11	#3	<0.10	Neg.	
3-14-12	#2	<0.10	Neg.	
3-1-13	#1	0.11 ppm	Neg.	Neg.
3-31-14	#3	0.16 ppm	Neg.	

Groundwater Monitoring

901:10-2-08(A)(4)(i)&(ii), 901:10-2-03(A)(2)(e)

- Are groundwater monitoring wells required? ☐ Yes ☒ No ☐ N/A
If yes, list results.

Agricultural Drainage Well

901:10-2-02(A)

- Is there indication of an agricultural drainage well (Class V well) on the property? ☐ Yes ☒ No ☐ N/A

If yes, is the agricultural drainage well likely to have runoff?

☐ Yes ☐ No ☒ N/A

Other Waste, Chemicals and Contaminants

901:10-2-08(A)(4)(d)

- Is there a sanitary permit for this facility? ☒ Yes ☐ No ☐ N/A
EPA Septic Permit #05-8879



- If yes, does the sanitary go to the manure storage and treatment facility?
☐ Yes ☒ No ☐ N/A
- If yes, is it permitted to do so?
☐ Yes ☐ No ☒ N/A
- Are all other waste, including medical waste, cleaning solutions, pesticides, fertilizers, herbicides and other contaminants stored/handled in a manner that will not discharge into a manure storage or treatment facility?
☒ Yes ☐ No ☐ N/A
- If no, provide brief explanation and if the discharge into the manure storage or treatment facility is permitted/allowed. _____

IV. MANURE STORAGE AND TREATMENT FACILITIES

- **Type of Manure:**
Rule 901:10-2-10(A)
 (Check all that apply) ☒ Liquid ☒ Solid
- **Annual manure analysis on File?** ☒ Yes ☐ No ☐ N/A
Rules 901:10-2-10(C), 901:10-2-16(A)(1)(b)
However, none since last inspection. Samples will be taken again in June.

Manure Sample Results

Type	Date	Moisture %	Measured in	NH ₄ -N	Organic N	P ₂ O ₅	K ₂ O
Barn 1	6-28-10	15.04	#/ton	3.16	83.98	76.54	47.46
Barn 2	6-28-10	20.00	#/ton	2.92	79.86	55.00	40.00
Barn 3	6-28-10	17.14	#/ton	2.72	83.84	63.24	44.82
Barn 4	6-28-10	18.53	#/ton	2.88	85.16	61.40	42.88
Barn 5	6-28-10	18.82	#/ton	2.98	96.42	58.66	40.96
Barn 6	6-28-10	17.58	#/ton	2.72	88.88	59.12	45.54
Barn 7	6-28-10	15.12	#/ton	3.46	90.08	67.82	40.72
Lagoon	7-27-10	99.80	#/1,000 g	0	1.98	0.16	0.41
Barn 1	6/14/11	16.84	#/ton	5.54	64.72	76.08	49.14
Barn 2	6/14/11	16.48	#/ton	5.48	69.36	66.0	47.94
Barn 3	6/14/11	14.98	#/ton	4.8	71.84	71.94	49.38
Barn 4	6/14/11	20.03	#/ton	7.74	88.44	107.7	62.64
Barn 5	6/14/11	18.5	#/ton	3.56	72.58	109.98	66.26
Barn 6	6/14/11	14.01	#/ton	3.12	63.4	134.28	80.22
Barn 7	6/14/11	16.9	#/ton	4.92	64.28	65.54	49.88
Lagoon	6/14/11	99.82	#/1,000 g	<.01	<.01	.42	.34
Barn 1	5/29/12	12.85	#/ton	3.8	87.3	60.0	34.7
Barn 2	5/29/12	13.34	#/ton	4.1	81.1	57.3	34.7
Barn 3	5/29/12	10.34	#/ton	4.0	68.9	66.5	37.3
Barn 4	5/29/12	10.3	#/ton	3.4	73.5	59.6	38.8
Barn 5	5/29/12	9.64	#/ton	3.6	83.8	68.3	39.5
Barn 6	5/29/12	9.86	#/ton	3.3	66.0	65.1	36.7
Barn 7	5/29/12	10.74	#/ton	4.7	76.9	71.0	39.8
Lagoon	5/29/12	99.84	#/1000g	<0.01	<0.01	0.17	0.33
Barn 1	6/25/13	17.7	#/ton	4.1	70.6	67.0	44.8
Barn 2	6/25/13	15.48	#/ton	2.5	95.1	50.9	42.4
Barn 3	6/25/13	15.23	#/ton	4.1	54.6	65.5	46.0
Barn 4	6/25/13	16.44	#/ton	3.2	79.3	72.4	46.5
Barn 5	6/25/13	19.8	#/ton	4.0	66.7	67.4	43.6



Type	Date	Moisture %	Measured in	NH ₄ -N	Organic N	P ₂ O ₅	K ₂ O
Barn 6	6/25/13	17.71	#/ton	2.3	76.1	51.3	41.9
Barn 7	6/25/13	16.61	#/ton	3.9	63.7	68.3	53.0
Lagoon	6/25/13	99.83	#/1000g	1.0	0	0.2	0.3

In 2010, manure sampling was changed to June to give a more representative sample of the manure applied on the fields. The nutrient levels are generally higher and the moisture generally lower when the samples are taken later.

- Type of manure storage or treatment facility:**

Rule 901:10-2-04

(Check all that apply)

- ☒ Fabricated structure ☐ Manure storage pond
☒ Manure treatment lagoon ☐ Combination

Fabricated Structure

- Type of fabricated structure:**

Rule 901:10-2-05

(Check all that apply)

- ☐ Stacking pad/bunker/etc ☐ Concrete block or stave pit
☐ Deep pit ☐ Above ground tank (metal/concrete/other)
☒ High-rise ☒ Manure storage barn (for belt-battery, etc)
☐ Other ☐ Compacted earthen floor concrete pit

- Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff?**

Rules 901:10-2-05, 901:10-2-08(A)(4)

- ☐ Yes ☐ No ☒ N/A

- Are records maintained on storage capacity or manure volume?**

Rule 901:10-2-16(A)(1)(a)(iii)

- ☒ Yes ☐ No ☐ N/A

Structure	Total Capacity	Date	Manure Level
1 (manure storage)	15'	5-5-14	4.0'
2 (manure storage)	15'	5-5-14	3.5'
3 (manure storage)	15'	5-5-14	3.0'
New 4 (hi-rise)	5'	5-5-14	3.5'
New 5 (hi-rise)	5'	5-5-14	3.5'
New 6 (hi-rise)	5'	5-5-14	3.5'
New 7 (manure storage)	15'	5-5-14	4.5'

The manure levels for both manure storage barns and hi-rise barns are the estimated average depth of the pile (if manure was spread across entire area of the barn).

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?**

Rule 901:10-2-08(A)(4)(e) & 901:10-2-16(A)(1)(a)(ii)

- ☒ Yes ☐ No ☐ N/A

- Do the inspections match the frequency in the manure management plan?**

Rules 901:10-2-08(A)(1) and 901:10-2-16(A)(1)(a)(ii)

- ☒ Yes ☐ No ☐ N/A

Weekly



- Are these regular inspections properly recorded in the operating record?

Rules 901:10-2-08(A)(4) and 901:10-2-16(A)(1)

☒ Yes

☐ No

☐ N/A

Manure Storage Pond or Manure Treatment Lagoon

- Type of manure storage pond or manure treatment lagoon (and approximate dimensions) Rule 901:10-2-06

(Check all that apply)

☒ Earthen manure storage pond

☐ Earthen manure treatment lagoon

(Explain number of ponds/lagoons, type of liner system installed (plastic, recompacted soil, in-situ soil, etc))

Egg wash goes to 1st stage pond, which is aerated by windmill. 1st stage gravity flows to 2nd stage pond, via transfer pipe. 2nd stage contents irrigated through center pivot. 3,500 – 4,100 gallons / day eggwash production.

- Is there twelve-inches of freeboard, plus the volume needed to contain the appropriate design storm, if the structure is subject to rainfall and runoff?

Rules 901:10-2-06(A)(2), 901:10-2-08(A)(4)(a), 901:10-2-16(A)(1)(a)(I)

☒ Yes

☐ No

☐ N/A

Date	Structure	MOL	Current Manure Level	Storage Remaining
5-19-14	North – 1 st stage	10'	7.0'	3.0'
5-19-14	South – 2 nd stage	10'	8'	2'

Center Pivot moved in 2011 to cover new ground.

- Are records maintained on storage capacity or manure volume?

Rule 901:10-2-16(A)(1)(a)(iii) & 901:10-2-06(A)(8) & 901:10-2-08(A)(4)(c)

☒ Yes

☐ No

☐ N/A

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?

Rule 901:10-2-08(A)(4)(e) & 901:10-2-16(A)(1)(a)(ii)

☒ Yes

☐ No

☐ N/A

- Is there evidence in the operating record of weekly inspections of stormwater conveyances, diversion devices and devices channeling contaminated stormwater to the manure storage pond or manure treatment lagoon?

Rule 901:10-2-16(A)(1)(a)(iv)

☒ Yes

☐ No

☐ N/A

- Do the inspections match the frequency in the manure management plan?

Rules 901:10-2-08(A)(1)

☒ Yes

☐ No

☐ N/A

Inspected and recorded weekly.

- Are these regular inspections properly recorded in the operating record?

Rules 901:10-2-08(A)(1)

☒ Yes

☐ No

☐ N/A



- Is the level indicator(s) conspicuously located and properly functioning in the manure storage pond or manure treatment lagoon?

Rules 901:10-2-06(A)(2), 901:10-2-08(A)(4)(o) and 901:10-2-16(A)(1)(a)(i)

☒ Yes ☐ No ☐ N/A

The top of the 2nd stage Pond staff gage cracked during a windstorm on July 22nd, 2013, but was replaced last fall once liquid levels were low enough to allow access.

- Is the vegetation near the manure storage pond or the manure treatment lagoon properly maintained?

Rule 901:10-2-08(A)(4)(j) & (k)

☒ Yes ☐ No ☐ N/A

Area around lagoons is stoned except on east side, which is grassed.

- Are the maintenance inspections for stormwater conveyances, runoff diversion structures, devices channeling contaminated stormwater, etc. properly recorded in the operating record?

Rules 901:10-2-16(A)(1)(a)(v) & 901:10-2-08(A)(4)(i), (j)

☒ Yes ☐ No ☐ N/A

V. MANURE MANAGEMENT

- Is the schedule for manure removal or manure residual removal outlined in the manure management plan?

Rules 901:10-2-08(A)(4)(g), 901:10-2-10(B), 901:10-2-16(A)(1)(c)&(e)

☒ Yes ☐ No ☐ N/A

- List the number of acres utilized for land application. (Include both land that is owned and land that is leased).

Rules 901:10-2-09(C), 901:10-2-16(A)(1)(c)(ii)

Acres owned	0
Acres leased	
Other land	
Total acres	0

- Was manure applied on snow-covered or frozen ground?

☐ Yes ☒ No ☐ N/A

- If so, was the application site approved for application?

☐ Yes ☐ No ☒ N/A

Distribution & Utilization

- Is manure distributed through Distribution and Utilization methods?

☒ Yes ☐ No ☐ N/A

Signed agreement with Don Hays, owner of land under center pivot.



While Weaver-Heartland owns the center pivot, Mr. Hays now makes decisions on timing and rates of application. Weaver-Heartland fills out the manure application records for Don, gives him the originals and keeps copies in the operating record. These copies were available for review on day of inspection, as well as the signed agreement. Review of these D&U manure application records showed that ODA rules were being (voluntarily) observed.

- **If Distribution and Utilization method of manure removal was used, were Appendices A, B, F and the most recent manure analysis given to the recipient of the manure?**

Rule 901:10-2-16(A)(1)(e)(iv) & 901:10-2-11(A)

☒ Yes

☐ No

☐ N/A

- **Is the record for the Distribution and Utilization of manure maintained in the operation record?**

Rule 901:10-2-16(A)(1)(e)(ii)(iii) & 901:10-2-11(B)

☒ Yes

☐ No

☐ N/A

In 2013, 18,200 tons of litter were sold to CLM Adam Hollinger and to a neighbor.
2,466,000 gallons of egg-wash lagoon water were distributed to Don Hays, via a center pivot.

To date in 2014, 4,418 tons of litter have been sold to CLM Adam Hollinger and to a neighbor.
324,000 gallons of egg-wash lagoon water were distributed to Don Hays via center pivot.

Egg wash lagoon water is applied at one-half inch per acre per application. The pump transfers 350 gallons per min to the 26 acre center pivot on Don Hays field.

Most litter sold to CLM Adam Hollinger.

Soil Characteristics - NA

All manure is removed through D&U

- **Are all soil analysis properly recorded in the operating record for the last five years?**

Rule 901:10-2-16(A)(1)(c)(vi) & 901:10-2-13(D)

☐ Yes

☐ No

☒ N/A

(The analysis records must be taken every three years).

- **Are the soil samples representative of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less?**

Rule 901:10-2-13(C)

☐ Yes

☐ No

☒ N/A

- **Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test?**

Rules 901:10-2-14(D)(E)(3) & 901:10-2-16(A)(1)(c)(xiii)

☐ Yes

☐ No

☒ N/A

* If so, list those fields.

Nutrient Budget - NA

All manure is removed through D&U

- **Is commercial fertilizer used?**



Rules 901:10-2-09(C)(2)

☐ Yes

☐ No

☒ N/A

*** If so, list amount of commercial fertilizer used.**

Rule 901:10-2-16(A)(1)(c)(xiv)

- Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(xiv)

☐ Yes

☐ No

☒ N/A

Cropping Schedules - NA

All manure is removed through D&U

- Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(viii)

☐ Yes

☐ No

☒ N/A

- Is the crop yield for each site properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(ix)

☐ Yes

☐ No

☒ N/A

- Is the actual crop yield for each site properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(xi)

☐ Yes

☐ No

☒ N/A

Application Records – NA – See comments in Distribution and Utilization section on page 8.

- If liquid manure is applied, are drain plugs being used?

Rule 901:10-2-16(A)(1)(c)(iv)

☐ Yes

☐ No

☒ N/A

- If liquid manure is applied, are observations of subsurface drains properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(iii) & 901:10-2-14(G)(2)(a)[Winter only]

☐ Yes

☐ No

☒ N/A

- Has the equipment for land application been inspected, maintained and properly recorded in the operating record?

Rules 901:10-2-08(A)(2)

☐ Yes

☐ No

☒ N/A

- Are there records in the operating record on soil conditions at times of application, such as soil cracks?

Rule 901:10-2-16(A)(1)(c)(xvi)

☐ Yes

☐ No

☒ N/A

- Are application rates and nutrients applied in accordance with ODA rules for nitrogen and phosphorus?

Rule 901:10-2-14(D),(E)

☐ Yes

☐ No

☒ N/A

- Are liquid application rates based on the Available Water Capacity chart?

Rule 901:10-2-14(C)(1)(d)

☐ Yes

☐ No

☒ N/A



- Are there records of general weather conditions, temperature and rainfall 24 hours before and after manure applications?

Rules 901:10-2-12 and 901:10-2-16(A)(1)(c)(xvii)

☐ Yes

☐ No

☒ N/A

- Are setbacks maintained and properly recorded in the operation record?

Appendix A of Rule 901:10-2-14 and Rule 901:10-2-16(A)(1)(c)(vii)

☐ Yes

☐ No

☒ N/A

- Is there evidence of documented use of vegetative cover to protect stream channels?

Rules 901:10-2-14, including Appendix A and 901:10-2-16(A)(1)(c)(vii)

☐ Yes

☐ No

☒ N/A

VI. INSECT AND RODENT CONTROL

- Is the insect and rodent control plan properly implemented by the owner or operator or manager?

Rule 901:10-2-19 & 901:10-2-16(A)(1)(a)(viii)

☒ Yes

☐ No

☐ N/A

- Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities?

Rule 901:2-19(B)(3)(a)(i)

☒ Yes

☐ No

☐ N/A

- Are these inspections properly recorded in the operating record?

Rule 901:10-2-19(B)(3)(a)(iii)

☒ Yes

☐ No

☐ N/A

Operating Record Results

Inspector Observations 5-19-14

Date in O. R.	Barn	Flies	Larvae	Beneficials	Flies	Larvae	Beneficials
5-12-14	1	F	F	F	F	F	F
5-12-14	2	F	F	F	F	F	F
5-12-14	3	F	F	F	F	F	F
5-12-14	4 (HR)	F	F	F	F	F	M
5-12-14	5 (HR)	F	F	M	F	F	A
5-12-14	6 (HR)	M	F	M	F	F	M
5-12-14	7	F	F	F	F	F	F

Additional observations:

-The manure in Barns 1, 2, 3 was moist, but not slumping. Manure in Barn 7 drier.

-Barn 4 manure was 5 ft. high and moderately dry.

-Barn 5 and 6 manure was 4 ft. high and moderately moist.

-Few flies and larvae in all manure storages.

-Visual monitoring is used. Action level for flies is at a "5" rating (6-10 flies per sq. ft for 30 seconds)

-Action level for larvae is a "moderate" rating (50% of monitored spots have larvae present)

-Insect control is biologically based, with chemical sprays used only when necessary.

-Rodent Action level is a "2" rating, which is a total of 11 rodents or more in 12 traps/week/building.

-FDA is not requiring Weaver-Heartland to perform complete manure cleanouts. 25% of manure is removed at a time.



- Is proper maintenance of the watering system properly recorded in the operating record?

Rule 901:10-2-19(B)(3)(a)(ii)

☒ Yes ☐ No ☐ N/A

- Are daily inspections of drinking water lines being made and recorded in the operating record?

Rule 901:10-2-08(A)(4)(n) & 901:10-2-19(B)(3)(a)(ii)

☒ Yes ☐ No ☐ N/A

VII. MORTALITY MANAGEMENT

- What type of mortality management does the facility have?

Rule 901:10-2-15 and 901:10-2-16(A)(1)(f)(i)

Mortality is sent to the landfill, Buckeye Waste in Bellefontaine, once a week. The dumpster is enclosed in a building and has automatic misters to apply insecticide if needed.

- Are there inspection records properly recorded in the operating record on mortality?

Rules 901:10-2-15 and 901:10-2-16(A)(1)(f)(ii)

☒ Yes ☐ No ☐ N/A

- Are Best Management Practices being utilized?

☒ Yes ☐ No ☐ N/A

VIII. OPERATING RECORD – GENERAL

- Are all operating records up-to-date and available for review by the inspector?

Rules 901:10-2-08 and 901:10-2-16

☒ Yes ☐ No ☐ N/A

- Is a copy of the RCC, PTI, **PTO** and/or NPDES permit with the operating record or located in the site office?

Rule 901:10-2-01(B)(3) for PTI
901:10-2-07(E) for PTO & NPDES

901:10-1-07 for RCC as being part of PTO

☒ Yes ☐ No ☐ N/A

- Have the operating records been retained by the owner or operator for a minimum of five years?

Rule 901:10-2-16(A)(1)

☒ Yes ☐ No ☐ N/A

- Since the last inspection, have any operational changes been made at the facility?

Rule 901:10-1-09(F)

☐ Yes ☒ No ☐ N/A

IX. VISUAL INSPECTIONS AND OUTSIDE INFORMATION

Water Quality Impacts

- Is there evidence of actual offsite discharge?

Rules 901:10-2-08 and 901:10-2-16(A)(1)(a)

☐ Yes ☒ No ☐ N/A



- Are there areas of concern for water quality impacts?

Rules 901:10-2-08 and 901:10-2-16

☐ Yes

☒ No

☐ N/A

- Is the water well location maintained in a proper manner to avoid contamination?

Rule 901:10-2-02(A)(1)&(2)

☒ Yes

☐ No

☐ N/A

- Facility upkeep and general appearance:?

☒ Above average

☐ Below average

☐ Average

☐ Poor

Describe the upkeep and general appearance of the following:

	<i>Above Average</i>	<i>Average</i>	<i>Below Average</i>	<i>Poor</i>	<i>Comments</i>
Diversion Ditches					na
Diversion Dikes					na
Berms					na
Embankments					na
Pipe Runs					na
Grassed Waterways	x				
Vegetative Cover	x				
Contour Grass Strips					na
Settling Basins					na
Feed System	x				
Storage Areas	x				
Watering System	x				
Walkways or Walk Areas Inside Building	x				
Walkways or Walk Areas Outside Building	x				
Feed Alleys					na
Chemicals	x				
Screens					na
Ventilation Systems, i.e. Fans	x				
Others					



X. SUMMARY

- Were the _____ n discussed with the owner, operator, manager, representative or livestock manager?

☒ Yes

☐ No

☐ N/A

Discussed with Steve Langston.

The results will be sent to either the owner, operator, manager, representative or livestock manager.

Required Actions:

Recommended Actions:

- Closely monitor moderately moist manure in Barns 5 and 6 for any increase in larvae and fly levels.

Reminder Actions:

- The 2014 Groundwater analyses will be due next March.
- The 2014 Annual Report is due to be submitted no later than January 31, 2015.

"I certify that this information was reviewed by the inspector and/or the owner, operator, manager, representative or livestock manager of the facility."

Mark Trent

Signature of Inspector

Report prepared June 19, 2014

**Cc: Steve Langston
Logan SWCD**





Department of
Agriculture

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
A.B. Graham Building
8995 East Main Street, Reynoldsburg, OH 43068
Phone: 614-387-0470 • Fax: 614-728-6335
www.agri.ohio.gov • lepp@agri.ohio.gov

Inspector Christine Pence
Inspection Start Time 1:00 p.m.

Date of Inspection 5/19/14

Type of Inspection

1st Routine ☒ 2nd Routine ☐ 3rd Routine ☐ Other ☐

Facility

Owner\Operator

Name	Woodbury Hogs			Name	Gary Woodbury		
Address	10697 Ohio-Indiana State Line Rd. (not mailing address)			Address	10393 Ohio-Indiana State Line Rd.		
City	Union City	Zip	45390	City	Union City	Zip	45390
Phone	937-968-6167			Phone	937-968-6167		
Email	woodburywelding@embarqmail.com			Email			
Email	Dwoodbury4@hotmail.com						

Contact Person

Name	Gary Woodbury	Telephone	937-968-6167
Email	woodburywelding@embarqmail.com	Cell	
Email	Dwoodbury4@hotmail.com		

Permit Information

Permit Number	19-034-PTO-002	Expiration Date	5/13/2019
Permit Modification		Effective Date	
Major Operational Change		Effective Date	

The PTO was renewed on May 13, 2014.

Certified Livestock Manager

Name	Certificate Number	Expiration Date	CEUs / Date

Bio-security Information:

Inspector followed facility or industry bio-security plan (whichever is more stringent) Yes ☒ No ☐ N/A ☐

No exposure to swine within 24 hours. Records inspected at Gary's office. Did not inspect facility due to health concerns at the facility. All questions pertaining to on-site inspections are not answered or answered as "N/A" since on-site inspection was not made due to biosecurity precautions.

I. FACILITY OPERATION INFORMATION

Number and Type of Animals

Animal Type	Existing Number of Animals (leave blank if facility is new)	Maximum Number of Animals (for new or expanding facilities)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)		
Swine over 55 pounds	3,840	3,840
Swine under 55 pounds		
Laying hens		
Broilers		
Pullets		
Other:		

Number of Employees	3
Type of Feed System	solid

II. WATER SYSTEM

Water Supply Sources

- Is there a well located at the facility?

Yes ☒ No ☐ N/A ☐

How Many? 2

- Is water treatment used?

Yes ☐ No ☒ N/A ☐

If so, where does back flush go?

Drinking Groundwater Sampling

- Are records of the groundwater sampling analysis properly recorded in the operation record?

Yes ☒ No ☐ N/A ☐

List the dates of the last samples taken.

Groundwater Sample Results

Groundwater Monitoring

- Are groundwater monitoring wells required?

Yes ☐ No ☒ N/A ☐

If yes, list results.

Date	TCR	Nitrate	Location
2/2/10	Neg	.15 ppm	Barn #2
1/31/11	Neg.	.1 ppm	Barn #2
1/26/12	Neg	.2 ppm	Barn #2
2/12/13	Neg	.11 ppm	Barn #2

The 2014 well tests were due to be completed around February 12, 2014. Forward results to Christine Pence immediately.

Agricultural Drainage Well

- Is there indication of an agricultural drainage well (Class V well) on the property?

If yes, is the agricultural drainage well likely to have runoff?

Yes ☐ No ☒ N/A ☐

Yes ☐ No ☐ N/A ☒

Other Waste, Chemicals and Contaminants

- Is there a sanitary permit for this facility?

Yes ☐ No ☒ N/A ☐

- If yes, does the sanitary go to the manure storage and treatment facility?

- If yes, is it permitted to do so?

Yes ☐ No ☐ N/A ☒

- Are all other waste, including medical waste, cleaning solutions, pesticides, fertilizers, herbicides and other contaminants stored/handled in a manner that will not discharge into a manure storage or treatment facility?

Yes ☒ No ☐ N/A ☐

- If no, provide brief explanation and if the discharge into the manure storage or treatment facility is permitted/allowed.

III. MANURE STORAGE AND TREATMENT FACILITIES

Type of Manure

(check all that apply)

Liquid ☒ Solid ☐

- Annual manure analysis on file?

Yes ☒ No ☐ N/A ☐

Manure Sample Results (Solids measured in #/ton – liquid measured in #/1,000g)

Type	Date	Moisture %	NH ₄ -N	Organic N	P ₂ O ₅	K ₂ O
Pond 1	7/20/10	95.93	10.86	13.04	36.02	21.63
Lagoon	7/20/10	99.29	4.29	1.24	.74	18.63
Pond 1	6/1/11	98.8	8.06	2.6	5.04	18.90
Lagoon	6/1/11	99.3	4.63	.42	.76	17.02
Lagoon	5/7/12	99.24	4.34	.08	.75	18.80
Pond 1	5/7/12	97.89	11.05	.92	10.72	22.9
Pond 1	7/15/13	98.8	11.2	1.6	2.5	13.5
Lagoon	7/15/13	99.19	4.7	.7	.6	18.7

Manure tests are due yet in 2014.

- Type of manure storage or treatment facility:

(Check all that apply)

Fabricated Structures
Combination

☐

Manure storage pond

☒

Manure treatment lagoon

☒
☐

Fabricated Structure

- Type of fabricated structure:

N/A

(Check all that apply)

- | | | | |
|--------------------------------------|--------------------------|---|--------------------------|
| Stacking pad/bunker/etc | <input type="checkbox"/> | Concrete block or stave pit | <input type="checkbox"/> |
| Deep pit | <input type="checkbox"/> | Above ground tank (metal/concrete/other) | <input type="checkbox"/> |
| High-rise | <input type="checkbox"/> | Manure storage barn (for belt-battery, etc) | <input type="checkbox"/> |
| Compacted earthen floor concrete pit | <input type="checkbox"/> | Other | <input type="checkbox"/> |

- Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff?
Yes ☐ No ☐ N/A ☒
- Are records maintained on storage capacity or manure volume?
Yes ☐ No ☐ N/A ☒
- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?
Yes ☐ No ☐ N/A ☒
- Do the inspections match the frequency in the manure management plan?
Yes ☐ No ☐ N/A ☒
- Are these regular inspections properly recorded in the operating record?
Yes ☐ No ☐ N/A ☒

Manure Storage Pond or Manure Treatment Lagoon

- Type of manure storage pond or manure treatment lagoon (and approximate dimensions)

(Check all that apply)

Earthen manure storage pond ☒ Earthen manure treatment lagoon ☒ N/A ☐
(Explain number of ponds/lagoons, type of liner system installed (plastic, re-compacted soil, insitu soil, etc.))

There are 2 storage-treatment structures; the 1st stage settling pond and a 2nd stage lagoon.

- Is there twelve-inches of freeboard, plus the volume needed to contain the appropriate design storm, if the structure is subject to rainfall and runoff?
Yes ☒ No ☐ N/A ☐
- Are records maintained on storage capacity or manure volume?
Yes ☒ No ☐ N/A ☐

Date	Structure	Max. Op. Level	Current Level	Storage Remaining to MOL
6/23/13	2 nd stage	15'	Down 72"	18"
12/1/13	2 nd stage	15'	Down 72"	18"
5/11/14	2 nd stage	15'	Down 79"	11"

For clarification, when measuring the amount of storage in the 2nd stage lagoon, Gary measures from the top of the access pipe down to the liquid level. Those measurements are recorded, then Gary needs to subtract 54" from the actual measurement to determine the amount of storage left. For example, if the actual measurement from the top of the pipe down to the liquid level is 84", subtract 36" (top of pipe elevation (50) minus the top of levee (47) then an additional 18" for freeboard to determine the amount of storage left, which would be 30" in this case. [84"-54" = 30" left to the MOL].

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?

Yes ☒ No ☐ N/A ☐

- Is there evidence in the operating record of weekly inspections of stormwater conveyances, diversion devices and devices channeling contaminated stormwater to the manure storage pond or manure treatment lagoon?

Yes ☒ No ☐ N/A ☐

- Do the inspections match the frequency in the manure management plan?

Yes ☒ No ☐ N/A ☐

Recorded weekly on their own form, and information transferred to ODA form monthly.

- Are these regular inspections properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

- Is the level indicator(s) conspicuously located and properly functioning in the manure storage pond or manure treatment lagoon?

Yes ☒ No ☐ N/A ☐

A unique staff gauge has been installed. It is a pvc pole attached to a float in the pump pit. The numbers have been stamped into the metal which is attached to the pole. In addition, a marker was installed in the bank itself with a black mark designating the MOL.

- Is the vegetation near the manure storage pond or the manure treatment lagoon properly maintained?

Yes ☐ No ☐ N/A ☒

All questions pertaining to on-site inspections are not

answered since on-site inspection was not made due to biosecurity precautions.

- Are the maintenance inspections for stormwater conveyances, runoff diversion structures, devices channeling contaminated stormwater, etc. properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

IV. MANURE MANAGEMENT

- Is the schedule for manure removal or manure residual removal outlined in the manure management plan?

Yes ☒ No ☐ N/A ☐

In 2010, there were records of 1,067,625 gallons applied to 146 acres from both ponds using the traveling gun. In 2011, a total of 1,524,375 gallons was applied to 88.93 acres over growing crops. In 2012, a total of 2,816,320 gallons were land applied from the facility. In 2013 through December 6, a total of 200,000 gallons were removed from Pond 1 and land applied to "Dads" field in IN (50 acres at 4,000 g/a).

From April 21, 2014-May 19, 2014, there were records of 175,000 g applied via tank to the Fifty farm (50 acres) (IN). An additional 460,000 g applied via travelling gun to the Home-S (50ac). Both removals from the 1st stage pond.

- List the number of acres utilized for land application. (Include both land that is owned and land that is leased).

Acres owned	376
Acres leased	
Other land	
Total acres	293 available

- Was manure applied on snow-covered or frozen ground? Yes ☐ No ☒ N/A ☐
* If so, was the application site approved for application? Yes ☐ No ☐ N/A ☒
- Is manure distributed through Distribution and Utilization methods? Yes ☐ No ☒ N/A ☐
- If Distribution and Utilization method of manure removal was used, were Appendices A, B, F and the most recent manure analysis given to the recipient of the manure? Yes ☐ No ☐ N/A ☒
- Is the record for the Distribution and Utilization of manure maintained in the operation record? Yes ☐ No ☐ N/A ☒

Soil Characteristics

- Are all soil analysis properly recorded in the operating record for the last five years? (The analysis records must be taken every three years) Yes ☒ No ☐ N/A ☐
Soil tests are current. In 2013, Mote Ag. Service grid sampled all fields. All fields were <150 ppm of P.
- Are the soil samples representative of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less? Yes ☒ No ☐ N/A ☐
- Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test? * If so, list those fields. Yes ☐ No ☒ N/A ☐

Nutrient Budget

- Is commercial fertilizer used? *If so, list amount of commercial fertilizer used Yes ☐ No ☒ N/A ☐
- Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record? Yes ☒ No ☐ N/A ☐

As a reminder, on fields with soil test between 100-150 ppm, ODA rules require that Phosphate be applied at a rate that does not exceed what the following crop will utilize. Applications above the agronomic sufficiency levels of 30 to 40 ppm (depending on crops grown) will not increase yields and could pose additional environmental risks. Applications should be prioritized to low testing fields for best economic returns.

Cropping Schedules

- Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record? Yes ☒ No ☐ N/A ☐
- Is the crop yield for each site properly recorded in the operating record? Yes ☒ No ☐ N/A ☐
- Is the actual crop yield for each site properly recorded in the operating record? Yes ☒ No ☐ N/A ☐

In 2013, corn average yield=150-160 bu/acre; soybeans =50 bu/acre; wheat =50 bu/acre. No wheat planted for 2014.

Application Records

- If liquid manure is applied, are drain plugs being used? Yes ☒ No ☐ N/A ☐

Tile plugs are available if needed. Gary owns and uses a traveling gun and pump, along with 3,500 feet of metal pipe and ½ mile of hose to land apply manure himself. Woodbury's monitor field tiles and record inspections in operating records. ODA's form with the field application map is used to document applications.

- If liquid manure is applied, are observations of subsurface drains properly recorded in the operating record? Yes ☒ No ☐ N/A ☐
- Has the equipment for land application been inspected, maintained and properly recorded in the operating record? Yes ☒ No ☐ N/A ☐
- Are there records in the operating record on soil conditions at times of application, such as soil cracks? Yes ☒ No ☐ N/A ☐
- Are application rates and nutrients applied in accordance with ODA rules for nitrogen and phosphorus? Yes ☒ No ☐ N/A ☐
- Are liquid application rates based on the Available Water Capacity chart? Yes ☒ No ☐ N/A ☐
- Are there records of general weather conditions, temperature and rainfall 24 hours before and after manure applications? Yes ☒ No ☐ N/A ☐
- Are setbacks maintained and properly recorded in the operation record? Yes ☒ No ☐ N/A ☐
- Is there evidence of documented use of vegetative cover to protect stream channels? Yes ☒ No ☐ N/A ☐

V. INSECT AND RODENT CONTROL

- Is the insect and rodent control plan properly implemented by the owner or operator or manager? Yes ☒ No ☐ N/A ☐
- Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities? Yes ☒ No ☐ N/A ☐
- Are these inspections properly recorded in the operating record? Yes ☒ No ☐ N/A ☐
- Is proper maintenance of the watering system properly recorded in the operating record? Yes ☒ No ☐ N/A ☐
- Are daily inspections of drinking water lines being made and recorded in the operating record? Yes ☒ No ☐ N/A ☐

VI. MORTALITY MANAGEMENT

- What type of mortality management does the facility have?
Mortality is rendered through Cooper Farms.
- Are there inspection records properly recorded in the operating record on mortality? Yes ☒ No ☐ N/A ☐
- Are Best Management Practices being utilized? Yes ☐ No ☐ N/A ☒

VII. OPERATING RECORD – GENERAL

- Are all operating records up-to-date and available for review by the inspector? Yes ☒ No ☐ N/A ☐
- Is a copy of the RCC, PTI, PTO and/or NPDES permit with the operating record or located in the site office? Yes ☒ No ☐ N/A ☐
- Have the operating records been retained by the owner or operator for a minimum of five years? Yes ☒ No ☐ N/A ☐
- Since the last inspection, have any operational changes been made at the facility? Yes ☐ No ☒ N/A ☐

VIII. VISUAL INSPECTIONS AND OUTSIDE INFORMATION

Water Quality Impacts

All questions pertaining to on-site inspections are not answered since on-site inspection was not made due to biosecurity precautions.

- Is there evidence of actual offsite discharge? Yes ☐ No ☐ N/A ☒

- Are there areas of concern for water quality impacts? Yes ☐ No ☐ N/A ☒
- Is the water well location maintained in a proper manner to avoid contamination? Yes ☒ No ☐ N/A ☐

Describe the upkeep and general appearance of the following

All questions pertaining to on-site inspections are not answered since on-site inspection was not made due to biosecurity precautions.

	Above Average	Average	Below Average	Poor	Comments
Dikes and Diversion Ditches					n/a
Berms					n/a
Embankments					
Pipe Runs					n/a
Grassed Waterways					n/a
Vegetative Cover					
Settling Basins					n/a
Feed System					
Storage Areas					
Watering System					
Walkways or Walk Areas Inside Building					
Walkways or Walk Areas Outside Building					
Ventilation Systems, i.e. Fans					
Others					

VIII. SUMMARY

Were the results of the inspection discussed with the owner, operator, manager, representative or livestock manager?

Yes ☒ No ☐ N/A ☐

Reminder Actions:

- Groundwater well analysis was due on or around February 12, 2014 for both Nitrates and Total coliform. They had not been completed as of this inspection conducted on May 19, 2014.
Forward the 2014 results to Christine Pence immediately.
- Manure tests are due yet in 2014.

"I certify that this information was reviewed with the owner, operator, manager, or representative of the facility."

Christine Pence

5/19/14

Signature of Inspector

Date

Cc: Darke SWCD
Bill Knapke, Cooper Farms



Department of
Agriculture

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
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OHIO DEPARTMENT OF AGRICULTURE INSPECTION FORM

I. FACILITY INFORMATION

Name of Inspector: Mark Fritz

Date of Inspection: 5-19-2014

Records were reviewed at Bruce's home, approximately one mile from barns.

Inspection Start Time: 1:10 p.m.

All questions pertaining to on-site inspections are not answered since on-site inspection was not performed, due to biosecurity precautions.

Purpose of Inspection:

- ☒ 1st Routine
☐ 2nd Routine
☐ Partial

- ☐ Complaint
☐ Enforcement
☐ Other

Facility:

Rule 901:10-2-01(C)(1)

Bruce Rosswurm Swine Farm

5100 Road 59

Payne, OH 45880

Owner/Operator:

Rule 901:10-2-01(C)(1)

Bruce Rosswurm

5062 Road 71

Payne, OH 45880

e-mail: barosswurm@gmail.com

cell phone: 419-786-0248

Contact Person: - Bruce Rosswurm

PERMIT NUMBER: Permit to Operate: 26-160-PTO-001

Expiration Date: March 27, 2018

Permit to Install: 26-160-PTI-001 Construction of 2,400 head swine finisher barn

PTI closed out October 2, 2013 per Stocking Approval letter for new barn.

Permit Modification:

Date Effective:

Major Operational Changes:

Date Effective:

☐

Livestock Manager Name: N/A

Rule 901:10-1-06

Biosecurity Information:

- No wild turkey hunting 48 hours prior.
- No contact with swine or poultry farms 72 hours prior
- Clean footwear and clothing



Serving Farmers and Protecting Consumers Since 1846



- No swine or feathered species at home
- Additional restrictions / procedures if barns are entered

Inspector followed facility or industry biosecurity plan ☒ Yes ☐ No ☐ N/A
 -- whichever is more stringent

Note: Inspector did not conduct on-site production facility inspection.
Poultry facility inspection conducted in morning, with permission from Bruce.
Disposable boots worn into house and left with Bruce at conclusion of inspection.



FACILITY OPERATION INFORMATION

Number and Type of Animals

Rule 901:10-2-01(C)(2) and 901:10-1-07(A)(2)

Animal Type	Existing Number of Animals (leave blank if new)	Maximum Number of Animals (for new or expanding)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)		
Swine Over 55 pounds	4,400	4,800
Swine Under 55 pounds		
Horses		
Sheep or lambs		
Turkeys		
Laying hens		
Broilers		
Duck		
Pullets		
Others:		

Number of Employees: Family

Type of Feed System: Dry

II. WATER SYSTEM

Water Supply Sources

Rule 901:10-2-08

- Is there a well located at the facility? ☒ Yes ☐ No ☐ N/A
- Is water treatment used: ☐ Yes ☒ No ☐ N/A

If so, where does backflush water go?

Drinking Groundwater Sampling

- Are records of the groundwater sampling analysis properly recorded in the operation record? ☒ Yes ☐ No ☐ N/A

List the dates of the last samples taken.

Groundwater Sample Results

Date	Well	Nitrate	TCR	E. coli
1-21-13	East	<0.1 mg/l	Neg.	Neg.

2014 well water tests were not available. These results must be provided by July 15, 2014.



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Groundwater Monitoring

901:10-2-08(A)(4)(i)&(ii), 901:10-2-03(A)(2)(c)

- Are groundwater monitoring wells required? ☐ Yes ☒ No ☐ N/A
If yes, list results.

Agricultural Drainage Well

901:10-2-02(A)

- Is there indication of an agricultural drainage well (Class V well) on the property?
☐ Yes ☒ No ☐ N/A

If yes, is the agricultural drainage well likely to have runoff?

☐ Yes ☐ No ☒ N/A

Other Waste, Chemicals and Contaminants

901:10-2-08(A)(4)(d)

- Is there a sanitary permit for this facility? ☐ Yes ☒ No ☐ N/A
 - If yes, does the sanitary go to the manure storage and treatment facility?
☐ Yes ☐ No ☒ N/A
 - If yes, is it permitted to do so? ☐ Yes ☐ No ☒ N/A
- Are all other waste, including medical waste, cleaning solutions, pesticides, fertilizers, herbicides and other contaminants stored/handled in a manner that will not discharge into a manure storage or treatment facility?
☒ Yes ☐ No ☐ N/A
 - If no, provide brief explanation and if the discharge into the manure storage or treatment facility is permitted/allowed. _____

III. MANURE STORAGE AND TREATMENT FACILITIES

- Type of Manure:
Rule 901:10-2-10(A)
(Check all that apply) ☒ Liquid ☒ Solid
- Annual manure analysis on File? ☒ Yes ☐ No ☐ N/A
Rules 901:10-2-10(C), 901:10-2-16(A)(1)(b)
However, none since last inspection. Samples will be taken at application this summer.

Manure Sample Results

Type	Date	Moisture %	NH ₄ -N	Organic N	P ₂ O ₅	K ₂ O	Notes
Barn 1	8-4-2013	93.03	41.6	16.7	24.9	43.4	24 hrs. agitation prior to sampling

Barn 1 is the original barn, on the south side. Barn 2 is the new barn, on the north side.



• **Type of manure storage or treatment facility:**

Rule 901:10-2-04

(Check all that apply)

- ☒ Fabricated structure ☐ Manure storage pond
☐ Manure treatment lagoon ☐ Combination

Fabricated Structure

• **Type of fabricated structure:**

Rule 901:10-2-05

(Check all that apply)

- ☐ Stacking pad/bunker/etc ☐ Concrete block or stave pit
☒ Deep pit ☐ Above ground tank (metal/concrete/other)
☐ High-rise ☐ Manure storage barn (for belt-battery, etc)
☒ Other-roofed compost barn ☐ Compacted earthen floor concrete pit

• **Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff?**

Rules 901:10-2-05, 901:10-2-08(A)(4)

- ☒ Yes ☐ No ☐ N/A

• **Are records maintained on storage capacity or manure volume?**

Rule 901:10-2-16(A)(1)(a)(iii)

- ☒ Yes ☐ No ☐ N/A

Structure	Date	MOL	Current Manure Level	Remaining Storage
South barn	5-13-14	82 in.	45 in.	37 in.
North barn	5-13-14	82 in.	23 in.	59 in.
Composter	4-2-14	100%	70%	30%

Bruce's records to date indicate that pit levels rise 22 inches every 6 months, or 3.66 in./month.

• **Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?**

Rule 901:10-2-08(A)(4)(e) & 901:10-2-16(A)(1)(a)(ii)

- ☒ Yes ☐ No ☐ N/A

• **Do the inspections match the frequency in the manure management plan?**

Rules 901:10-2-08(A)(1) and 901:10-2-16(A)(1)(a)(ii)

- ☒ Yes ☐ No ☐ N/A

• **Are these regular inspections properly recorded in the operating record?**

Rules 901:10-2-08(A)(4) and 901:10-2-16(A)(1)

- ☒ Yes ☐ No ☐ N/A

Inspections of perimeter drain inspection ports now performed and recorded weekly.

Manure Storage Pond or Manure Treatment Lagoon - NA

• **Type of manure storage pond or manure treatment lagoon (and approximate dimensions)**

Rule 901:10-2-06

(Check all that apply)

- ☐ Earthen manure storage pond ☐ Earthen manure treatment lagoon

(Explain number of ponds/lagoons, type of liner system installed (plastic, recompacted soil, in-situ soil, etc))

• **Is there twelve-inches of freeboard, plus the volume needed to contain the appropriate design storm, if the structure is subject to rainfall and runoff?**

Rules 901:10-2-06(A)(2), 901:10-2-08(A)(4)(a), 901:10-2-16(A)(1)(a)(I)

- ☐ Yes ☐ No ☐ N/A



- **Are records maintained on storage capacity or manure volume?**
Rule 901:10-2-16(A)(1)(a)(iii) & 901:10-2-06(A)(8) & 901:10-2-08(A)(4)(c)
☐ Yes ☐ No ☐ N/A
- **Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?**
Rule 901:10-2-08(A)(4)(e) & 901:10-2-16(A)(1)(a)(ii) ☐ Yes ☐ No ☐ N/A
- **Is there evidence in the operating record of weekly inspections of stormwater conveyances, diversion devices and devices channeling contaminated stormwater to the manure storage pond or manure treatment lagoon?**
Rule 901:10-2-16(A)(1)(a)(iv) ☐ Yes ☐ No ☐ N/A
- **Do the inspections match the frequency in the manure management plan?**
Rules 901:10-2-08(A)(1) ☐ Yes ☐ No ☐ N/A
- **Are these regular inspections properly recorded in the operating record?**
Rules 901:10-2-08(A)(1) ☐ Yes ☐ No ☐ N/A
- **Is the level indicator(s) conspicuously located and properly functioning in the manure storage pond or manure treatment lagoon?**
Rules 901:10-2-06(A)(2), 901:10-2-08(A)(4)(o) and 901:10-2-16(A)(1)(a)(i) ☐ Yes ☐ No ☐ N/A
- **Is the vegetation near the manure storage pond or the manure treatment lagoon properly maintained?**
Rule 901:10-2-08(A)(4)(j) & (k) ☐ Yes ☐ No ☐ N/A
- **Are the maintenance inspections for stormwater conveyances, runoff diversion structures, devices channeling contaminated stormwater, etc. properly recorded in the operating record?**
Rules 901:10-2-16(A)(1)(a)(v) & 901:10-2-08(A)(4)(i), (j) ☐ Yes ☐ No ☐ N/A

IV. MANURE MANAGEMENT

- **Is the schedule for manure removal or manure residual removal outlined in the manure management plan?**
Rules 901:10-2-08(A)(4)(g), 901:10-2-10(B), 901:10-2-16(A)(1)(c)&(e)
☒ Yes ☐ No ☐ N/A

However, none since last inspection. Manure will be spread on wheat stubble this summer. 2013 application table, below, is from previous inspection report.

2013 MANURE APPLICATIONS

Source	Date	Total gal. or tons	Acres App.	Field	Avail N Lbs/ac.	P205 Lbs/ac.	K20 lbs/ac.	Soil P ppm	Notes
7/25,26	Barn 1	576,000 g.	72	RWP32 RWP35	108	199	347	18-37 23	Tom Heckel, CLM

Both fields soil sampled in 2013, prior to manure application.

The 199 lbs/acre of P205 applied in the manure is sufficient for 3-4 years' crops. This field should not be applied for at least another 3 years.

- **List the number of acres utilized for land application. (Include both land that is owned and land that is leased).**
Rules 901:10-2-09(C), 901:10-2-16(A)(1)(c)(ii)



Acres owned	256
Acres leased	1,202
Other land	
Total acres	1,458

- Was manure applied on snow-covered or frozen ground?
☐ Yes ☒ No ☐ N/A
 * If so, was the application site approved for application?
☐ Yes ☐ No ☒ N/A
- Is manure distributed through Distribution and Utilization methods?
☐ Yes ☒ No ☐ N/A
- If Distribution and Utilization method of manure removal was used, were Appendices A, B, F and the most recent manure analysis given to the recipient of the manure?
 Rule 901:10-2-16(A)(1)(e)(iv) & 901:10-2-11(A) ☐ Yes ☐ No ☒ N/A
- Is the record for the Distribution and Utilization of manure maintained in the operation record?
 Rule 901:10-2-16(A)(1)(e)(ii)(iii) & 901:10-2-11(B) ☐ Yes ☐ No ☒ N/A

Soil Characteristics

- Are all soil analysis properly recorded in the operating record for the last five years?
 Rule 901:10-2-16(A)(1)(c)(vi) & 901:10-2-13(D) ☒ Yes ☐ No ☐ N/A
Soil P levels range from 17 – 98 ppm. Most fields are below 40 ppm.

Fields sampled in 2009 and 2010 were sampled spring 2014, by Nester Ag, but results were not yet available on day of inspection. These results must be provided to the inspector by July 15, 2014.
 (The analysis records must be taken every three years).
- Are the soil samples representative of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less?
 Rule 901:10-2-13(C) ☒ Yes ☐ No ☐ N/A
- Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test?
 Rules 901:10-2-14(D)(E)(3) & 901:10-2-16(A)(1)(c)(xiii) ☐ Yes ☒ No ☐ N/A
 * If so, list those fields.

Nutrient Budget

- Is commercial fertilizer used?
 Rules 901:10-2-09(C)(2) ☒ Yes ☐ No ☐ N/A
 * If so, list amount of commercial fertilizer used.
 Rule 901:10-2-16(A)(1)(c)(xiv)



Corn receiving manure: 35 lbs. actual N and 35 lbs. P205 per acre in starter. 40 gal. 28-0-0 sidedressed, per PSNT recommendation by Nester Ag.

All other Corn - 190 lbs. actual N and 35 lbs. P205 per acre

Soybeans – no commercial fertilizer

Wheat – 250 lbs/acre 10-24-24 starter. 25 gal/acre 28-0-0 1st topdress application. Another, smaller application will be made at stem elongation.

- Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(xiv)

☒ Yes

☐ No

☐ N/A

Cropping Schedules

- Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(viii)

☒ Yes

☐ No

☐ N/A

- Is the crop yield for each site properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(ix)

☒ Yes

☐ No

☐ N/A

- Is the actual crop yield for each site properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(xi)

☒ Yes

☐ No

☐ N/A

2013 corn averaged 198 bpa; soybeans 58 bpa; and wheat 89 bpa.

Application Records – No applications since last inspection. Responses below are from 2013 applications and were provided to Rosswurms by CLM applicator Tom Heckel.

- If liquid manure is applied, are drain plugs being used?

Rule 901:10-2-16(A)(1)(c)(iv)

Available if needed

☐ Yes

☒ No

☐ N/A

- If liquid manure is applied, are observations of subsurface drains properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(iii) & 901:10-2-14(G)(2)(a)[Winter only]

☒ Yes

☐ No

☐ N/A

- Has the equipment for land application been inspected, maintained and properly recorded in the operating record?

Rules 901:10-2-08(A)(2)

☒ Yes

☐ No

☐ N/A

- Are there records in the operating record on soil conditions at times of application, such as soil cracks?

Rule 901:10-2-16(A)(1)(c) (xvi)

☒ Yes

☐ No

☐ N/A



- Are application rates and nutrients applied in accordance with ODA rules for nitrogen and phosphorus?

Rule 901:10-2-14(D),(E)

☒ Yes

☐ No

☐ N/A

Oat cover crop planted after August manure application on wheat stubble.

- Are liquid application rates based on the Available Water Capacity chart?

Rule 901:10-2-14(C)(1)(d)

☒ Yes

☐ No

☐ N/A

- Are there records of general weather conditions, temperature and rainfall 24 hours before and after manure applications?

Rules 901:10-2-12 and 901:10-2-16(A)(1)(c)(xvii)

☒ Yes

☐ No

☐ N/A

- Are setbacks maintained and properly recorded in the operation record?

Appendix A of Rule 901:10-2-14 and Rule 901:10-2-16(A)(1)(c)(vii)

☒ Yes

☐ No

☐ N/A

- Is there evidence of documented use of vegetative cover to protect stream channels?

Rules 901:10-2-14, including Appendix A and 901:10-2-16(A)(1)(c)(vii)

☒ Yes

☐ No

☐ N/A

V. INSECT AND RODENT CONTROL

- Is the insect and rodent control plan properly implemented by the owner or operator or manager?

Rule 901:10-2-19 & 901:10-2-16(A)(1)(a)(viii)

☒ Yes

☐ No

☐ N/A

- Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities?

Rule 901:2-19(B)(3)(a)(i)

☒ Yes

☐ No

☐ N/A

- Are these inspections properly recorded in the operating record?

Rule 901:10-2-19(B)(3)(a)(iii)

☒ Yes

☐ No

☐ N/A

- Is proper maintenance of the watering system properly recorded in the operating record?

Rule 901:10-2-19(B)(3)(a)(ii)

☒ Yes

☐ No

☐ N/A

- Are daily inspections of drinking water lines being made and recorded in the operating record?

Rule 901:10-2-08(A)(4)(n) & 901:10-2-19(B)(3)(a)(ii)

☒ Yes

☐ No

☐ N/A

Water meters automatically record water use for prior 30 days. Daily written log still being kept.



VI. MORTALITY MANAGEMENT

- **What type of mortality management does the facility have?**

Rule 901:10-2-15 and 901:10-2-16(A)(1)(f)(i)

Composting is performed in a roofed, multi-bin barn.

Bruce is certified to compost mortalities through OSU Extension.

- **Are there inspection records properly recorded in the operating record on mortality?**

Rules 901:10-2-15 and 901:10-2-16(A)(1)(f)(ii)

☒ Yes

☐ No

☐ N/A

- **Are Best Management Practices being utilized?**

☐ Yes

☐ No

☐ N/A

All questions pertaining to on-site inspections are not answered since on-site inspection was not performed, due to biosecurity precautions.

VII. OPERATING RECORD – GENERAL

- **Are all operating records up-to-date and available for review by the inspector?**

Rules 901:10-2-08 and 901:10-2-16

☒ Yes

☐ No

☐ N/A

However, well water and new soil tests not available for review. See Required Actions on page 12.

- **Is a copy of the RCC, PTI, PTO and/or NPDES permit with the operating record or located in the site office?**

Rule 901:10-2-01(B)(3) for PTI

901:10-2-07(E) for PTO & NPDES

901:10-1-07 for RCC as being part of PTO

☒ Yes

☐ No

☐ N/A

- **Have the operating records been retained by the owner or operator for a minimum of five years?**

Rule 901:10-2-16(A)(1)

☒ Yes

☐ No

☐ N/A

Since permitting on March 27, 2013.

- **Since the last inspection, have any operational changes been made at the facility?**

Rule 901:10-1-09(F)

☐ Yes

☒ No

☐ N/A

All questions pertaining to on-site inspections are not answered since on-site inspection was not performed, due to biosecurity precautions.

VIII. VISUAL INSPECTIONS AND OUTSIDE INFORMATION

Water Quality Impacts

- **Is there evidence of actual offsite discharge?**

Rules 901:10-2-08 and 901:10-2-16(A)(1)(a)

☐ Yes

☐ No

☐ N/A

- **Are there areas of concern for water quality impacts?**

Rules 901:10-2-08 and 901:10-2-16

☐ Yes

☐ No

☐ N/A



- **Is the water well location maintained in a proper manner to avoid contamination?**
Rule 901:10-2-02(A)(1)&(2) ☒ Yes ☐ No ☐ N/A

- **Facility upkeep and general appearance:?**

☐ Above average
☐ Average

☐ Below average
☐ Poor

All questions pertaining to on-site inspections are not answered since on-site inspection was not performed, due to biosecurity precautions.

Describe the upkeep and general appearance of the following:

	Above Average	Average	Below Average	Poor	Comments
Diversion Ditches					
Diversion Dikes					
Berms					
Embankments					
Pipe Runs					
Grassed Waterways					
Vegetative Cover					
Contour Grass Strips					
Settling Basins					
Feed System					
Storage Areas					
Watering System					
Walkways or Walk Areas Inside Building					
Walkways or Walk Areas Outside Building					
Feed Alleys					
Chemicals					
Screens					
Ventilation Systems, i.e. Fans					
Others					



IX. SUMMARY

- Were the results of the inspection discussed with the owner, operator, manager, representative or livestock manager?

☒ Yes

☐ No

☐ N/A

Results were discussed with Bruce Rosswurm.

The results will be sent to either the owner, operator, manager, representative or livestock manager.

Required Actions:

- 2014 well water test results were not available for review on day of inspection. These results must be provided to the inspector by July 15, 2014.
- Fields sampled in 2009 and 2010 were sampled spring 2014, but results were not yet available on day of inspection. These results must be provided to the inspector by July 15, 2014.
- Continue to monitor seedings around new barn and re-seed as necessary.

Reminder Actions:

- The 199 lbs/acre of P205 provided in the 2013 manure application is sufficient for 3-4 years' crops. This field should not be applied for at least another 3 years.

Recommended Actions:

- Target soil test levels should be maintained as close to agronomic sufficiency levels as possible, which is 15-30 ppm or 30-60 lbs/acre for corn and soybeans and 25-40 ppm or 50-80 lbs/acre for wheat and alfalfa. This allows for multiple year nutrient application and the buildup/drawdown of nutrients without causing deficiencies or increasing environmental risks.
- 10-20 lbs/acre of P205 in the starter fertilizer is sufficient to produce the desired "starter effect". The addition of more will not increase yields on soils with soil P levels above the sufficiency range of 15-30 ppm for corn and soybeans.

"I certify that this information was reviewed by the inspector and/or the owner, operator, manager, representative or livestock manager of the facility."

Mark T. [Signature]

Signature of Inspector

Report prepared June 19, 2014

Cc: Paulding SWCD
Dan Bruner, ODA-DLEP



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Department of
Agriculture

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
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8995 East Main Street, Reynoldsburg, OH 43068
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www.agri.ohio.gov • lepp@agri.ohio.gov

Inspector Dan Bruner
Inspection Start Time 10:00 am

Date of Inspection 5/22/2014

Type of Inspection

1st Routine ☒ 2nd Routine ☐ 3rd Routine ☐ Other ☐

Facility

Owner\Operator

Name	Napoleon Dairy LLC			Name	Same		
Address	V 624 Co. Rd. 16			Address			
City	Napoleon	OH	43545	City			
Phone	419-598-1119			Phone			
Email	R.vanbakel@vanbakelgroep.nl			Email			

Contact Person

Name	Wilfred and Francine Peters	Telephone	
Email	wilfredpeters@aol.com	Cell	419-438-1689

Permit Information

Permit Number	PET-0001.PO001.HENR	Expiration Date	7/16/2013
Permit Modification		Effective Date	
Major Operational Change	Two ponds into one, relocate sand lanes.	Effective Date	2/22/2012

DLEP received the permit renewal on January 16, 2014 and it is in the renewal process.

Certified Livestock Manager

Name	Certificate Number	Expiration Date	CEUs / Date

Bio-security Information:

Inspector followed facility or industry bio-security plan
(whichever is more stringent)

Yes ☒ No ☐ N/A ☐

Disposable boots worn and left at facilities.

I. FACILITY OPERATION INFORMATION

Number and Type of Animals

Animal Type	Existing Number of Animals (leave blank if facility is new)	Maximum Number of Animals (for new or expanding facilities)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)	280	1900
Swine over 55 pounds		
Swine under 55 pounds		
Laying hens		
Broilers		
Pullets		
Other:		

Number of Employees	7
Type of Feed System	Dry

Numbers are low now because the dairy cattle are at the other dairies of the Untied Dairy Group.
Numbers will increase as the year progresses.

II. WATER SYSTEM

Water Supply Sources

- Is there a well located at the facility?

Yes ☒ No ☐ N/A ☐

How Many? 7

- Is water treatment used?

Yes ☒ No ☐ N/A ☐

If so, where does back flush go?

Chlorination system for cleaning equipment. No water softeners used.

Drinking Groundwater Sampling

- Are records of the groundwater sampling analysis properly recorded in the operation record?

Yes ☒ No ☐ N/A ☐

List the dates of the last samples taken.

Groundwater Sample Results

Well	Date	TCR	Nitrate
South	11-3-08	Neg.	<.2ppm
Well head	11-2-09	Pos.	.2 ppm
Well head	9-13-10	Pos.	None detected
Well head	9-27-11	Neg.	None detected
Wellhead	8-21-12	Neg.	None detected
Wellhead	8-7-13	Neg.	None detected

Groundwater Monitoring

- Are groundwater monitoring wells required?

Yes ☐ No ☒ N/A ☐

If yes, list results.

Agricultural Drainage Well

- Is there indication of an agricultural drainage well (Class V well) on the property?

Yes ☐ No ☒ N/A ☐

If yes, is the agricultural drainage well likely to have runoff?

Yes ☐ No ☐ N/A ☒

Other Waste, Chemicals and Contaminants

- Is there a sanitary permit for this facility?

Yes ☒ No ☐ N/A ☐

- If yes, does the sanitary go to the manure storage and treatment facility?

Yes ☐ No ☒ N/A ☐

- If yes, is it permitted to do so?

Yes ☐ No ☐ N/A ☒

- Are all other waste, including medical waste, cleaning solutions, pesticides, fertilizers, herbicides and other contaminants stored/handled in a manner that will not discharge into a manure storage or treatment facility?

Yes ☒ No ☐ N/A ☐

- If no, provide brief explanation and if the discharge into the manure storage or treatment facility is permitted/allowed.

III. MANURE STORAGE AND TREATMENT FACILITIES

Type of Manure

(check all that apply)

Liquid ☒ Solid ☒

- Annual manure analysis on file?

Yes ☒ No ☐ N/A ☐

Manure Sample Results (Solids measured in #/ton – liquid measured in #/1,000g)

Source	Date	Moisture %	NH ₄ -N	Organic N	P ₂ O ₅	K ₂ O
Concrete Pit - Solids	9-30-09	52.2	2.7	6.6	3.3	3.7
	8-27-10	50.3	1.4	3.9	1.6	2.2
	4-16-12	44.8	1.1	2.0	1.8	3.8
	7-29-13	42.5	.2	6.6	3.9	1.8
Earthen Manure Pond	9-30-09	96.6	10.8	8.8	6.7	16.6
	8-27-10	96.4	2.7	12.4	4.8	18.7
	4-16-12	98.0	8.2	2.9	3.4	17.9
	5-3-12	96.9	8.2	5.9	6.7	16.7
	7-29-13	98.2	9.0	4.3	3.1	17.8

Mortality	9-30-09	36.0	3.8	46.7	13.4	14.5
Compost	8-27-10	31.9	.22	44.1	19.1	16.9
	7-29-10	63.9	1.7	15.4	7.4	14.5

- **Type of manure storage or treatment facility:**

(Check all that apply)

Fabricated Structures ☒ Manure storage pond ☒ Manure treatment lagoon ☐
Combination ☐

Fabricated Structure

- **Type of fabricated structure:**

(Check all that apply)

Stacking pad/bunker/etc ☐ Concrete block or stave pit ☐
Deep pit ☐ Above ground tank (metal/concrete/other) ☐
High-rise ☐ Manure storage barn (for belt-battery, etc) ☐
Compacted earthen floor concrete pit ☐ Other- Concrete settling basin ☒

- Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff?
Yes ☒ No ☐ N/A ☐

- Are records maintained on storage capacity or manure volume?

Yes ☒ No ☐ N/A ☐

Structure	Date	Maximum Operating Level	Current Manure Level	Storage Remaining
Concrete Settling Basin	5-15-14	132"	48"	84"

Concrete settling basin has a storage capacity of 735,336 gallons. Manure is scraped from barns into the basin. Liquid manure off the top is pumped over to earthen storage pond.

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?

Yes ☒ No ☐ N/A ☐

- Do the inspections match the frequency in the manure management plan?

Yes ☒ No ☐ N/A ☐

Monthly inspections documented.

- Are these regular inspections properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

Manure Storage Pond or Manure Treatment Lagoon

- **Type of manure storage pond or manure treatment lagoon (and approximate dimensions)**

(Check all that apply)

Earthen manure storage pond ☒ Earthen manure treatment lagoon ☐ N/A ☐

(Explain number of ponds/lagoons, type of liner system installed (plastic, re-compacted soil, in-situ soil, etc.))

One earthen manure storage pond, with a capacity of 10,909,590 gallons.

- Is there twelve-inches of freeboard, plus the volume needed to contain the appropriate design storm, if the structure is subject to rainfall and runoff? Yes ☒ No ☐ N/A ☐
- Are records maintained on storage capacity or manure volume? Yes ☒ No ☐ N/A ☐

Structure	Date	Maximum Operating Level	Current Manure Level	Storage Remaining
Manure Storage Pond	5-15-14	151"	139"	12"

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge? Yes ☒ No ☐ N/A ☐
- Is there evidence in the operating record of weekly inspections of stormwater conveyances, diversion devices and devices channeling contaminated stormwater to the manure storage pond or manure treatment lagoon? Yes ☒ No ☐ N/A ☐
- Do the inspections match the frequency in the manure management plan? Yes ☒ No ☐ N/A ☐
- Are these regular inspections properly recorded in the operating record? Yes ☒ No ☐ N/A ☐
- Is the level indicator(s) conspicuously located and properly functioning in the manure storage pond or manure treatment lagoon? Yes ☒ No ☐ N/A ☐
- Is the vegetation near the manure storage pond or the manure treatment lagoon properly maintained? Yes ☒ No ☐ N/A ☐
- Are the maintenance inspections for stormwater conveyances, runoff diversion structures, devices channeling contaminated stormwater, etc. properly recorded in the operating record? Yes ☒ No ☐ N/A ☐

IV. MANURE MANAGEMENT

- Is the schedule for manure removal or manure residual removal outlined in the manure management plan? Yes ☒ No ☐ N/A ☐

Field: The field number or name.

Date: Date of manure application.

Tons / Gals: Tons or gallons applied to the field.

Storage: Storage structure manure was removed from.

Acres: The acres of the field applied to.

Lbs P Applied: The pounds of P applied to the field from the manure application(s).

P Level: The phosphorus value of the field as reported at the time of application in ppm/acre

Field	Year 2013			Year 2014			Year 2015		
	Date	Tons/gals Storage	Acres Lbs P applied P Level ppm/acre	Date	Tons/gals Storage	Acres Lbs P applied P Level ppm/acre	Date	Tons/gals Storage	Acres Lbs P applied P Level ppm/acre
Rabe	May Aug.	500,000 1,043,000 Pond	200 ac. 46.5 lbs. 147 ppm/ac						
61	July 15	280,000 Lagoon	79 ac 15.5 lbs. 21 ppm/ac						
Becu	Sept. 8	450,000 Lagoon	45 ac 31 lbs. 32 ppm/ac						
6 A&B	Sept. 11	370,000 Lagoon	25 ac 23.5 lbs. 44 ppm/ac						
52 & 53	Sept. 18	322,000 Lagoon	35 ac. 27.9 lbs. 36 ppm/ac						
13A	Sept 29	372,000 Lagoon	30 ac 37.2 lbs 24 ppm/ac						
2B	Sept. 23	378,000 Lagoon	40 ac 29.3 lbs. 46 ppm/ac						
45	Sept. 25	1,000,000 Lagoon	100 ac. 31 lbs. 54 ppm/ac						
38	Sept. 30	350,000 Lagoon	35 ac 31 lbs. 86 ppm/ac						

Rabe farm is close to 150 ppm Bray 1 of Phosphorus per acre. See required actions at the end of this document.

- List the number of acres utilized for land application. (Include both land that is owned and land that is leased).

Acres owned	40
Acres leased	
Other land	1960
Total acres	2000

- Was manure applied on snow-covered or frozen ground?

Yes ☐ No ☒ N/A ☐

* If so, was the application site approved for application?

Yes ☐ No ☐ N/A ☒

- Is manure distributed through Distribution and Utilization methods?

Yes ☒ No ☐ N/A ☐

- If Distribution and Utilization method of manure removal was used, were Appendices A, B, F and the most recent manure analysis given to the recipient of the manure?

Yes ☒ No ☐ N/A ☐

- Is the record for the Distribution and Utilization of manure maintained in the operation record?

Yes ☒ No ☐ N/A ☐

Date	Source	Amount	Destination
11-29-13	Manure Pond	515,000 gal.	Scott Daman
11/28-30/13	Manure Pond	1,000,000 gal.	Delbert Daman
8/15-18/13	Settling basin	2,750 tons	Scott, Delbert Daman
5/2-21/14	Settling basin	247,890 gal.	Napoleon Biogas

Napoleon Biogas LLC has been removing manure from the settling basin to feed their digester. Appendices A, B, F and a recent manure test were given to them. A signed agreement will be on file stating the annual amount removed from Napoleon Dairy. It is unclear to date of how much Napoleon Biogas will remove.

Soil Characteristics

- Are all soil analysis properly recorded in the operating record for the last five years?
(The analysis records must be taken every three years)

Yes ☒ No ☐ N/A ☐

- Are the soil samples representative of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less?

Yes ☒ No ☐ N/A ☐

- Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test?

* If so, list those fields.

Yes ☐ No ☒ N/A ☐

Nutrient Budget

- Is commercial fertilizer used?

Yes ☐ No ☒ N/A ☐

*If so, list amount of commercial fertilizer used

Owned field receives no commercial fertilizer. Contracted alfalfa fields only receive manure.

- Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

Cropping Schedules

- Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Is the crop yield for each site properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Is the actual crop yield for each site properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐

Crop	2013	2014	2015	2016	2017
Corn Silage	21.33 tpa				
Alfalfa	10.96 tpa				

Application Records

- If liquid manure is applied, are drain plugs being used?
Yes ☐ No ☒ N/A ☐
- If liquid manure is applied, are observations of subsurface drains properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Has the equipment for land application been inspected, maintained and properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Are there records in the operating record on soil conditions at times of application, such as soil cracks
Yes ☒ No ☐ N/A ☐
- Are application rates and nutrients applied in accordance with ODA rules for nitrogen and phosphorus?
Yes ☒ No ☐ N/A ☐
- Are liquid application rates based on the Available Water Capacity chart?
Yes ☒ No ☐ N/A ☐
- Are there records of general weather conditions, temperature and rainfall 24 hours before and after manure applications?
Yes ☒ No ☐ N/A ☐
- Are setbacks maintained and properly recorded in the operation record?
Yes ☒ No ☐ N/A ☐

- Is there evidence of documented use of vegetative cover to protect stream channels?
Yes ☒ No ☐ N/A ☐

V. INSECT AND RODENT CONTROL

- Is the insect and rodent control plan properly implemented by the owner or operator or manager?
Yes ☒ No ☐ N/A ☐
- Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities?
Yes ☒ No ☐ N/A ☐
- Are these inspections properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Is proper maintenance of the watering system properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Are daily inspections of drinking water lines being made and recorded in the operating record?
Yes ☒ No ☐ N/A ☐

VI. MORTALITY MANAGEMENT

- What type of mortality management does the facility have?
Mortality Composting
Mortality compost pile is located on the feed pad.
- Are there inspection records properly recorded in the operating record on mortality?
Yes ☒ No ☐ N/A ☐
- Are Best Management Practices being utilized?
Yes ☒ No ☐ N/A ☐

VII. OPERATING RECORD – GENERAL

- Are all operating records up-to-date and available for review by the inspector?
Yes ☒ No ☐ N/A ☐
- Is a copy of the RCC, PTI, PTO and/or NPDES permit with the operating record or located in the site office?
Yes ☒ No ☐ N/A ☐

- Have the operating records been retained by the owner or operator for a minimum of five years? Yes ☒ No ☐ N/A ☐

- Since the last inspection, have any operational changes been made at the facility? Yes ☒ No ☐ N/A ☐

They are milking fewer cows and waiting on replacements from United Dairy Group.

VIII. VISUAL INSPECTIONS AND OUTSIDE INFORMATION

Water Quality Impacts

- Is there evidence of actual offsite discharge? Yes ☐ No ☒ N/A ☐
- Are there areas of concern for water quality impacts? Yes ☐ No ☒ N/A ☐
- Is the water well location maintained in a proper manner to avoid contamination? Yes ☒ No ☐ N/A ☐

Describe the upkeep and general appearance of the following

	Above Average	Average	Below Average	Poor	Comments
Dikes and Diversion Ditches					NA
Berms	X				
Embankments	X				
Pipe Runs					NA
Grassed Waterways					NA
Vegetative Cover	X				
Settling Basins	X				
Feed System	X				
Storage Areas	X				
Watering System	X				
Walkways or Walk Areas Inside Building	X				
Walkways or Walk Areas Outside Building	X				
Ventilation Systems, i.e. Fans	X				
Others					

VIII. SUMMARY

Were the results of the inspection discussed with the owner, operator, manager, representative or livestock manager?

Yes ☒ No ☐ N/A ☐

The results of this inspection were discussed with Wilfred Peters at the time of the inspection.

Required Actions:

1. You need to obtain a signed agreement with Napoleon Biogas and also record how much manure was, or will be, removed in 2014.
2. Manage and reduce manure levels in the Manure Storage Pond before planting is all done.

Reminder Actions:

1. Any fields that receive more than one application of manure per growing season must have nitrogen fertilizer rates adjusted so as not to exceed the next crops needs.
2. Manure samples must be taken from all of the storages from where manure is removed for application. These records need to be maintained in the operating record and should distinguish whether the sample was taken after agitation.
3. Water samples must be taken and recorded in the operating record.
4. The Rabe farm fields are above 100 ppm Bray P1 and can only receive a one-year P removal rate.

Recommended Actions:

1. Target soil test levels should be maintained as close to agronomic sufficiency levels as possible, 15-30 ppm or 30-60 lbs/acre for corn and soybeans and 25-40 ppm or 50-80 lbs/acres for wheat and alfalfa. This allows for multiple year nutrient application and the buildup and drawdown of nutrients without causing deficiencies or increasing environmental risks.
2. Continue to implement housekeeping and best management practices in those areas that are necessary.

"I certify that this information was reviewed with the owner, operator, manager, or representative of the facility."

Daniel A. Brown

Signature of Inspector

5-22-2014

Date

Attachment:

Cc:



Department of
Agriculture

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
A.B. Graham Building
8995 East Main Street, Reynoldsburg, OH 43068
Phone: 614-387-0470 • Fax: 614-728-6335
www.agri.ohio.gov • lepp@agri.ohio.gov

INSPECTION FORM

I. FACILITY INFORMATION

Name of Inspector: Mark Fritz

Date of Inspection: 6-2-2014

Present for Inspection:

Greg Cooper - General Manager

Kevin Stuckey - Sow Division Manager

Dave Talbott, White Oak Manager

Pete Sonnenberg - Irrigation Manager

Jeff Spangler - Sow Services Manager

Inspection Start Time: 10:00 a.m.

Purpose of Inspection:

☒ 1st Routine (1 of 1)

☐ 2nd Routine

☐ Partial

☐ Complaint
☐ Enforcement
☐ Other

Facility:

Rule 901:10-2-01(C)(1)

White Oak Farm

4604 Road 165

Grover Hill, OH 45849

Phone: 419-594-3325 Fax: 419-594-3221

Owner/Operator:

Rule 901:10-2-01(C)(1)

Cooper Farms

PO Box 339

Ft. Recovery, OH 45846

Phone: 419-375-4116 Fax: 419-375-2145

James Cooper e-mail: jimc@cooperfarms.com

Gary Cooper e-mail: garyc@cooperfarms.com

Contact Person (if not owner/operator):

Kevin Stuckey

4486 Rd. 197

Cloverdale, OH 45827

Cell: 419-786-9576

e-mail: kevins@cooperfarms.com

PERMIT NUMBER: 63-143-PTO-001

63-143-PTI-001

Expiration Date: 07-11-2017

Permit Modification: NA

Date Effective:

Major Operational Changes: NA

Date Effective:

Livestock Manager Name: See next page

Rule 901:10-1-06



Date of Expiration of Certificate Rule 901:10-5-02(B) See below

Name	Certificate #	Expiration date	Approved hrs.	Hrs. needed
Bill Knapke	16	12/31/2016	0	10
Kevin Stuckey	45	12/31/2014	4.5	5.5
Dave Talbott	74	12/31/2015	7.5	2.5
Pete Sonnenberg	408	12/31/2017	0	10
Jeff Spangler	127	12/31/2016	0	10

Biosecurity Information:

- No wild turkey hunting 48 hours prior.
- No contact with any swine or feathered species 72 hours prior
- No exposure to swine or feathered species at home, zoo or fair 72 hours prior
- No visits to any processing plants, rendering plants, hatcheries or feed mills 72 hours prior
- Clean footwear and clothing
- Additional restrictions / procedures if barns are entered

Inspector followed facility or industry biosecurity plan ☒ Yes ☐ No ☐ N/A

-- whichever is more stringent

All questions pertaining to on-site inspections are not answered since on-site inspection was not performed, due to biosecurity precautions.

Records inspection took place at new Cooper Oakwood facilities office, located at 14814 Rd. 119, Paulding, Ohio. Inspector wore disposable boots into office and disposed of them on-site.



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II. FACILITY OPERATION INFORMATION

Number and Type of Animals

Rule 901:10-2-01(C)(2) and 901:10-1-07(A)(2)

Animal Type	Existing Number of Animals (leave blank if new)	Maximum Number of Animals (for new or expanding)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)		
Swine Over 55 pounds	2,512	2,776
Swine Under 55 pounds	2,000	
Horses		
Sheep or lambs		
Turkeys		
Laying hens		
Broilers		
Duck		
Pullets		
Others:		

Number of Employees: 10

Type of Feed System: Dry

III. WATER SYSTEM

Water Supply Sources

Rule 901:10-2-08

- Is there a well located at the facility? ☒ Yes ☐ No ☐ N/A
How Many: 1
- Is water treatment used: ☒ Yes ☐ No ☐ N/A
If so, where does backflush water go?
Injected Chlorine system – no backflush.

Drinking Groundwater Sampling

- Are records of the groundwater sampling analysis properly recorded in the operation record? ☒ Yes ☐ No ☐ N/A
There is a single well which supplies the facility's drinking water pond.



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List the dates of the last samples taken.

Groundwater Sample Results

Date	Well	TCR	Nitrate
5-13-11	Production	Neg	<0.10 ppm
3-7-12	Production	Neg	<0.10 ppm
3-7-13	Production	Neg	0.14 ppm
2-25-14	Production	Neg	<0.10 ppm

Annual well tests due to be taken March 2015

Groundwater Monitoring

901:10-2-08(A)(4)(i)&(ii), 901:10-2-03(A)(2)(c)

- Are groundwater monitoring wells required? ☐ Yes ☒ No ☐ N/A
If yes, list results.

Agricultural Drainage Well

901:10-2-02(A)

- Is there indication of an agricultural drainage well (Class V well) on the property?
☐ Yes ☒ No ☐ N/A
If yes, is the agricultural drainage well likely to have runoff?
☐ Yes ☐ No ☒ N/A

Other Waste, Chemicals and Contaminants

901:10-2-08(A)(4)(d)

- Is there a sanitary permit for this facility? ☒ Yes ☐ No ☐ N/A
 - If yes, does the sanitary go to the manure storage and treatment facility?
☒ Yes ☐ No ☐ N/A
 - If yes, is it permitted to do so?
☒ Yes ☐ No ☐ N/A

OEPA permit# 08-064-NW issued 1-26-2001

The sanitary goes to a septic tank and then to 3 peat filters. It is then discharged to the lagoon.

- Are all other waste, including medical waste, cleaning solutions, pesticides, fertilizers, herbicides and other contaminants stored/handled in a manner that will not discharge into a manure storage or treatment facility?
☒ Yes ☐ No ☐ N/A
 - If no, provide brief explanation and if the discharge into the manure storage or treatment facility is permitted/allowed. _____

IV. MANURE STORAGE AND TREATMENT FACILITIES

- Type of Manure:

Rule 901:10-2-10(A)

(Check all that apply)

☒ Liquid

☒ Solid



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- **Annual manure analysis on File?** ☒ Yes ☐ No ☐ N/A
Rules 901:10-2-10(C), 901:10-2-16(A)(1)(b)

Manure Sample Results

Type	Date	Moisture %	NH ₄ -N	Organic N	P ₂ O ₅	K ₂ O	Notes
Lagoon	5/2/12	99.61	4.3	1.8	0.4	8.2	
Compost	5/2/12	23.35	8.2	35.9	104.0	43.8	Lbs./ton
Lagoon	5-21-13	99.59	5.1	0	0.6	8.7	
Compost	5-21-13	9.2	4.6	52.7	115.0	40.2	Lbs./ton
Lagoon	4-15-14	99.65	4.6	0.8	0.4	7.8	
Compost	4-15-14	27.76	8.4	54.1	138.1	40.3	Lbs./ton

Due to the high P205 levels in the mortality compost, application rates must be kept very low in order to keep below the 250 lbs./acre maximum P205 limit. Application should be made on fields testing less than 30 ppm, if possible.

- **Type of manure storage or treatment facility:**
Rule 901:10-2-04

(Check all that apply)

- ☒ Fabricated structure ☐ Manure storage pond
- ☒ Manure treatment lagoon ☐ Combination

Fabricated Structure

- **Type of fabricated structure:**
Rule 901:10-2-05

(Check all that apply)

- ☐ Stacking pad/bunker/etc ☐ Concrete block or stave pit
- ☐ Deep pit ☐ Above ground tank (metal/concrete/other)
- ☐ High-rise ☐ Manure storage barn (for belt-battery, etc)
- ☒ Other – Compost barn ☐ Compacted earthen floor concrete pit

- **Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff?**

Rules 901:10-2-05, 901:10-2-08(A)(4) ☐ Yes ☐ No ☒ N/A

Compost barn is roofed and has a capacity of 13,200 cubic feet or 163 tons.

- **Are records maintained on storage capacity or manure volume?**

Rule 901:10-2-16(A)(1)(a)(iii) ☒ Yes ☐ No ☐ N/A

5-29-14

Structure	Maximum Operating Level	Current Operating Level	Storage Remaining
Compost barn	100%	75%	25%

Turkey litter bulking agent stored inside

- **Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?**

Rule 901:10-2-08(A)(4)(e) & 901:10-2-16(A)(1)(a)(ii) ☒ Yes ☐ No ☐ N/A

- **Do the inspections match the frequency in the manure management plan?**

Rules 901:10-2-08(A)(1) and 901:10-2-16(A)(1)(a)(ii) ☒ Yes ☐ No ☐ N/A



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- Are these regular inspections properly recorded in the operating record?
Rules 901:10-2-08(A)(4) and 901:10-2-16(A)(1) ☒ Yes ☐ No ☐ N/A

Manure Storage Pond or Manure Treatment Lagoon

- Type of manure storage pond or manure treatment lagoon (and approximate dimensions) Rule 901:10-2-06

(Check all that apply)

☐ Earthen manure storage pond

☒ Earthen manure treatment lagoon

(Explain number of ponds/lagoons, type of liner system installed (plastic, recompacted soil, in-situ soil, etc))

Single stage anaerobic treatment lagoon with a minimum treatment volume of 9,777,136 gallons, and a manure storage volume of 6,383,911 gallons, providing 487 days' storage.

- Is there twelve-inches of freeboard, plus the volume needed to contain the appropriate design storm, if the structure is subject to rainfall and runoff?
Rules 901:10-2-06(A)(2), 901:10-2-08(A)(4)(e), 901:10-2-16(A)(1)(a)(I)

☒ Yes

☐ No

☐ N/A

- Are records maintained on storage capacity or manure volume?
Rule 901:10-2-16(A)(1)(a)(iii) & 901:10-2-06(A)(8) & 901:10-2-08(A)(4)(c)

☒ Yes

☐ No

☐ N/A

6-2-14

Structure	Maximum Operating Level	Current Operating Level	Storage Remaining
Lagoon	15.5 ft.	15 ft. 0 in.	0 ft. 6 in.

When available, water from clean stormwater pond is pumped into lagoon after center pivot applications, which aids in treatment and odor control.

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?
Rule 901:10-2-08(A)(4)(e) & 901:10-2-16(A)(1)(a)(ii)

☒ Yes

☐ No

☐ N/A

- Is there evidence in the operating record of weekly inspections of stormwater conveyances, diversion devices and devices channeling contaminated stormwater to the manure storage pond or manure treatment lagoon?
Rule 901:10-2-16(A)(1)(a)(iv)

☒ Yes

☐ No

☐ N/A

- Do the inspections match the frequency in the manure management plan?
Rules 901:10-2-08(A)(1)

☒ Yes

☐ No

☐ N/A

- Are these regular inspections properly recorded in the operating record?
Rules 901:10-2-08(A)(1)

☒ Yes

☐ No

☐ N/A

- Is the level indicator(s) conspicuously located and properly functioning in the manure storage pond or manure treatment lagoon?
Rules 901:10-2-06(A)(2), 901:10-2-08(A)(4)(o) and 901:10-2-16(A)(1)(a)(i)

☐ Yes

☐ No

☐ N/A



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White Oak indicated that the level marker in the lagoon had been damaged by ice this past winter. Elevations were taken and repairs made soon after the inspection. (pictures e-mailed to inspector)

- Is the vegetation near the manure storage pond or the manure treatment lagoon properly maintained?

Rule 901:10-2-08(A)(4)(j) & (k)

☐ Yes

☐ No

☐ N/A

- Are the maintenance inspections for stormwater conveyances, runoff diversion structures, devices channeling contaminated stormwater, etc. properly recorded in the operating record?

Rules 901:10-2-16(A)(1)(a)(v) & 901:10-2-08(A)(4)(i), (j)

☒ Yes

☐ No

☐ N/A

Contaminated runoff from composting area flows to manure treatment lagoon.

V. MANURE MANAGEMENT

- Is the schedule for manure removal or manure residual removal outlined in the manure management plan?

Rules 901:10-2-08(A)(4)(g), 901:10-2-10(B), 901:10-2-16(A)(1)(c)&((e)

☒ Yes

☐ No

☐ N/A

A semi-circle center pivot covering 54.5 acres was installed in 2001 on portions of fields WO-1W, WO-1MW, WO-1ME and WO-1E.

2013 Manure Applications

Date	Storage	Total App.	Acres App.	Field	Avail N/ac.	P205 /ac.	K20 /ac.	Soil P-Meh. ppm	Soil K-Meh. ppm	Notes
7/19	Lagoon	1,053,400 gal.	54.5	CP	25	6	168	25-36	421-877	.1in/ac/pass
7/20-10/9	Lagoon	4,853,000 gal.	54.5	CP	114	71	605	25-36	421-877	.1in/ac/pass

2014 Manure Applications

Date	Storage	Total App.	Acres App.	Field	Avail N/ac.	P205 /ac.	K20 /ac.	Soil P-Meh. ppm	Soil K-Meh. ppm	Notes
As of 5/9	Lagoon	820,900 gal.	54.5	CP	4	1	21	25-36	421-877	.1in/ac/pass

- List the number of acres utilized for land application. (Include both land that is owned and land that is leased).

Rules 901:10-2-09(C), 901:10-2-16(A)(1)(c)(ii)

Acres owned	177
Acres leased	
Other land	
Total acres	177



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- Was manure applied on snow-covered or frozen ground?
☐ Yes ☒ No ☐ N/A
- If so, was the application site approved for application?
☐ Yes ☐ No ☒ N/A

Distribution & Utilization

- Is manure distributed through Distribution and Utilization methods?
☒ Yes ☐ No ☐ N/A
16 tons mortality compost was removed and applied by a neighbor on 10/25/2013.
- If Distribution and Utilization method of manure removal was used, were Appendices A, B, F and the most recent manure analysis given to the recipient of the manure?
 Rule 901:10-2-16(A)(1)(e)(iv) & 901:10-2-11(A) ☒ Yes ☐ No ☐ N/A
- Is the record for the Distribution and Utilization of manure maintained in the operation record?
 Rule 901:10-2-16(A)(1)(e)(i)(ii)(iii) & 901:10-2-11(B) ☒ Yes ☐ No ☐ N/A

Soil Characteristics

- Are all soil analysis properly recorded in the operating record for the last five years?
 Rule 901:10-2-16(A)(1)(c)(vi) & 901:10-2-13(D) ☒ Yes ☐ No ☐ N/A
 (The analysis records must be taken every three years).
- Are the soil samples representative of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less?
 Rule 901:10-2-13(C) ☒ Yes ☐ No ☐ N/A
- Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test?
 Rules 901:10-2-14(D)(E)(3) & 901:10-2-16(A)(1)(c)(xiii) ☐ Yes ☒ No ☐ N/A
 * If so, list those fields.
Owned fields tested in 2012 using Mehlich 3 extraction and range from 24-70 ppm P and 280-877 ppm K.
It is recommended to test the areas under the center pivot separately from non-CP areas, to accurately monitor soil P and K levels. Of particular agronomic concern is the possibility of excessively high and yield-reducing soil K levels under the CP.

Nutrient Budget

- Is commercial fertilizer used?
 Rules 901:10-2-09(C)(2) ☒ Yes ☐ No ☐ N/A
 * If so, list amount of commercial fertilizer used.
 Rule 901:10-2-16(A)(1)(c)(xiv)



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All needed nutrients under CP supplied by manure in 2013.
Other fields received a total of 140-160 lbs. N/acre in 2013.
2014 rye received no topdress N, except for manure applied through CP.
No P or K applied in starter or as broadcast.

- Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(xiv)

☒ Yes ☐ No ☐ N/A

Cropping Schedules

- Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(viii)

☒ Yes ☐ No ☐ N/A

Rye was not harvested as forage – will be harvested for seed by Van Erk Dairy.

- Is the crop yield for each site properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(ix)

☒ Yes ☐ No ☐ N/A

- Is the actual crop yield for each site properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(xi)

☒ Yes ☐ No ☐ N/A

Year	Crop	Yield
2012	<u>Rye</u>	<u>3.11 tpa silage basis</u>
	<u>Corn silage</u>	<u>7.08 tpa silage basis</u>
2013	<u>Corn silage</u>	<u>19.0 tpa silage basis</u>
		<u>No rye in 2013</u>

Application Records

- If liquid manure is applied, are drain plugs being used?

Rule 901:10-2-16(A)(1)(c)(iv)

☒ Yes ☐ No ☐ N/A

One shutoff structure each on NE and NW corners of CP field, where field tile exit.

- If liquid manure is applied, are observations of subsurface drains properly recorded in the operating record?

Rule 901:10-2-16(A)(1)(c)(iii) & 901:10-2-14(G)(2)(a)[Winter only]

☒ Yes ☐ No ☐ N/A

- Has the equipment for land application been inspected, maintained and properly recorded in the operating record?

Rules 901:10-2-08(A)(2)

☒ Yes ☐ No ☐ N/A

- Are there records in the operating record on soil conditions at times of application, such as soil cracks?

Rule 901:10-2-16(A)(1)(c) (xvi)

☒ Yes ☐ No ☐ N/A



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- Are application rates and nutrients applied in accordance with ODA rules for nitrogen and phosphorus?

Rule 901:10-2-14(D),(E)

☒ Yes

☐ No

☐ N/A

Manure nutrients applied now being entered directly on to application record sheet.

- Are liquid application rates based on the Available Water Capacity chart?

Rule 901:10-2-14(C)(1)(d)

☒ Yes

☐ No

☐ N/A

- Are there records of general weather conditions, temperature and rainfall 24 hours before and after manure applications?

Rules 901:10-2-12 and 901:10-2-16(A)(1)(c)(xvii)

☒ Yes

☐ No

☐ N/A

- Are setbacks maintained and properly recorded in the operation record?

Appendix A of Rule 901:10-2-14 and Rule 901:10-2-16(A)(1)(c)(vii)

☒ Yes

☐ No

☐ N/A

- Is there evidence of documented use of vegetative cover to protect stream channels?

Rules 901:10-2-14, including Appendix A and 901:10-2-16(A)(1)(c)(vii)

☐ Yes

☒ No

☐ N/A

VI. INSECT AND RODENT CONTROL

- Is the insect and rodent control plan properly implemented by the owner or operator or manager?

Rule 901:10-2-19 & 901:10-2-16(A)(1)(a)(viii))

☒ Yes

☐ No

☐ N/A

- Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities?

Rule 901:2-19(B)(3)(a)(i)

☒ Yes

☐ No

☐ N/A

Weekly

- Are these inspections properly recorded in the operating record?

Rule 901:10-2-19(B)(3)(a)(iii)

☒ Yes

☐ No

☐ N/A

The rodent traps and fly spec cards are checked and recorded each week.
There were few fly specks recorded in the operating records.

- Is proper maintenance of the watering system properly recorded in the operating record?

Rule 901:10-2-19(B)(3)(a)(ii)

☒ Yes

☐ No

☐ N/A

- Are daily inspections of drinking water lines being made and recorded in the operating record?

Rule 901:10-2-08(A)(4)(n) & 901:10-2-19(B)(3)(a)(ii)

☒ Yes

☐ No

☐ N/A

Water meter readings recorded daily



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- **Are there areas of concern for water quality impacts?**

Rules 901:10-2-08 and 901:10-2-16

☐ Yes

☐ No

☐ N/A

- **Is the water well location maintained in a proper manner to avoid contamination?**

Rule 901:10-2-02(A)(1)&(2)

☒ Yes

☐ No

☐ N/A

- **Facility upkeep and general appearance:?**

☐ Above average

☐ Below average

☐ Average

☐ Poor

All questions pertaining to on-site inspections are not answered since on-site inspection was not performed, due to biosecurity precautions.

Describe the upkeep and general appearance of the following:

	Above Average	Average	Below Average	Poor	Comments
Diversion Ditches					
Diversion Dikes					NA
Berms					
Embankments					
Pipe Runs					
Grassed Waterways					NA
Vegetative Cover					
Contour Grass Strips					NA
Settling Basins					NA
Feed System					
Storage Areas					NA – did not enter buildings
Watering System					NA – did not enter buildings
Walkways or Walk Areas Inside Building					NA – did not enter buildings
Walkways or Walk Areas Outside Building					
Feed Alleys					NA
Chemicals					NA
Screens					NA
Ventilation Systems, Fans					
Others					



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X. SUMMARY

- Were the results of the inspection discussed with the owner, operator, manager, representative or livestock manager?

☒ Yes

☐ No

☐ N/A

Results discussed with all those present at inspection.

The results will be sent to either the owner, operator, manager, representative or livestock manager.

Required Actions:

Recommended Actions:

- Soil test the areas under the center pivot separately from non-CP areas, to more accurately monitor soil P and K levels. Of particular agronomic concern is the possibility of excessively high and yield-reducing soil K levels under the CP.

Reminder Actions:

- Annual well tests due to be taken March 2015
- Due to the high P205 levels in the mortality compost, application rates must be kept very low in order to keep below the 250 lb/acre maximum P205 limit. Application should be made on fields testing less than 30 ppm, if possible.

"I certify that this information was reviewed by the inspector and/or the owner, operator, manager, representative or livestock manager of the facility."

Mark Fritz

Signature of Inspector

Report prepared by Mark Fritz, June 25, 2014

**Cc: Kevin Stuckey, Cooper Farms
Bill Knapke, Cooper Farms
Greg Cooper, Cooper Farms
Dave Talbott, Cooper Farms
Lisa Land, Cooper Farms
Pete Sonnenberg, Cooper Farms
Jeff Spangler, Cooper Farms
Paulding SWCD
Dan Bruner, ODA-DLEP**



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Department of Agriculture

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
A.B. Graham Building
8995 East Main Street, Reynoldsburg, OH 43068
Phone: 614-387-0470 • Fax: 614-728-6335
www.agri.ohio.gov • lepp@agri.ohio.gov

Inspector Christine Pence
Inspection Start Time 4:30 p.m.

Date of Inspection 6/4/2014

Type of Inspection

1st Routine ☒ 3rd Routine ☐
2nd Routine ☐ Other ☐

Facility

Owner\Operator

Name	J&K Swine Farm, LLC			Name	Jamie & Kim Campbell		
Address	11054 Michael Rd.- not a mailing address			Address	4213 Washington Rd. E.		
City	Ansonia	Ohio	Zip 45303	City	Ansonia	Ohio	45303
Phone				Phone	937-417-1080		
Email				Email	jkfarm@embarqmail.com		

Contact Person

Name	Jamie Campbell	Telephone	
Email	jkfarm@embarqmail.com	Cell	937-417-1080

Permit Information

Permit Number	19-116-PTO-001	Expiration Date	8/17/2016
Permit Modification		Effective Date	
Major Operational Change		Effective Date	

The renewal application for the expiring PTO will be due by no later than February 19, 2016.

Certified Livestock Manager

Name	Certificate Number	Expiration Date	CEUs / Date
	n/a		

Bio-security Information:

Inspector followed facility or industry bio-security plan Yes ☐ No ☐ N/A ☒
(whichever is more stringent)

On site visit not made due to biosecurity precautions. All questions pertaining to on-site inspections are not answered since on-site inspection was not made due to biosecurity precautions.

I. FACILITY OPERATION INFORMATION

Number and Type of Animals

Animal Type	Existing Number of Animals (leave blank if facility is new)	Maximum Number of Animals (for new or expanding facilities)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)		
Swine over 55 pounds	2935 currently stocked	4,900
Swine under 55 pounds		
Laying hens		
Broilers		
Pullets		
Other:		

Number of Employees	1+family
Type of Feed System	solid

II. WATER SYSTEM

Water Supply Sources

- Is there a well located at the facility?

Yes ☒ No ☐ N/A ☐

How Many? 1

- Is water treatment used?

Yes ☒ No ☐ N/A ☐

If so, where does back flush go?

Drinking Groundwater Sampling

- Are records of the groundwater sampling analysis properly recorded in the operation record?

Yes ☒ No ☐ N/A ☐

List the dates of the last samples taken.

Groundwater Sample Results

Date	Well	Nitrate	TCR
2/8/11	Office tap	.1 mg/l	neg
2/28/12	Office tap	<.1 mg/l	Neg
6/5/13	Office tap	18 ppm	Neg

Groundwater tests are due now and are planned in conjunction with manure sampling.

Groundwater Monitoring

- Are groundwater monitoring wells required?
If yes, list results.

Yes ☐ No ☒ N/A ☐

Agricultural Drainage Well

- Is there indication of an agricultural drainage well (Class V well) on the property?

If yes, is the agricultural drainage well likely to have runoff?

Yes ☐ No ☒ N/A ☐

Yes ☐ No ☐ N/A ☒

Other Waste, Chemicals and Contaminants

- Is there a sanitary permit for this facility?

Yes ☐ No ☒ N/A ☐

- If yes, does the sanitary go to the manure storage and treatment facility?

- If yes, is it permitted to do so?

Yes ☐ No ☐ N/A ☒

- Are all other waste, including medical waste, cleaning solutions, pesticides, fertilizers, herbicides and other contaminants stored/handled in a manner that will not discharge into a manure storage or treatment facility?

Yes ☒ No ☐ N/A ☐

- If no, provide brief explanation and if the discharge into the manure storage or treatment facility is permitted/allowed.

III. MANURE STORAGE AND TREATMENT FACILITIES

Type of Manure

(check all that apply)

Liquid ☒ Solid ☒

- Annual manure analysis on file?

Yes ☒ No ☐ N/A ☐

Manure Sample Results (Solids measured in #/ton – liquid measured in #/1,000g)

Barn	Date	Moisture %	NH ₄	Organic N	P ₂ O ₅	K ₂ O
1	2/9/11	95.3	33.92	.34	23.07	31.78
2	Not	Built yet	In 2011			
Compost	2/9/11	67.05	21.0	41.0	190.2*	18.8
1	11/12/12	95.4	25.3	11.9	32.8	33.51
2	11/12/12	96.8	36.8	2.43	11.9**	28.2
Compost	11/12/12	30.85	12.2	37.1	24.6	14.8
1-before agitation	9/30/13	87.24	39.64	26.16	71.75	32.03
1-agitated	10/8/13	90.37	27.56	24.30	61.63	20.90
2-agitated	10/8/13	91.95	41.72	26.88	31.1	28.29
Compost	9/27/13	26.39	12.76	30.74	13.7	11.88

* This level appears to be quite high. Be sure to obtain a representative sample prior to removal.

**There was 3' of water in this pit before pigs were stocked and manure removed for land application for the first time in November, 2012.

As a reminder, manure analyses are due to completed at least once annually from each manure storage structure and should be done just following proper agitation and just prior to removal in order to get representative samples. Typically, manure is removed in the fall. Also, a mortality compost sample is only needed prior to removal.

Barn 1 - On 3/15/13, MTM (More Than Manure) was applied to the manure due to high ammonia levels. The ammonia level dropped from 35 to 10 within 20 minutes of application in the manure pit. There was also 5" of foam present before the MTM was applied, which disappeared following the MTM application.

Barn 2 - On 3/15/13, MTM was applied in this barn also; however, there were no foam issues, but the ammonia levels did drop.

The 2014 samples are planned to be collected prior to application. Jamie plans to apply some manure to sidedress corn, weather permitting.

- **Type of manure storage or treatment facility:**

(Check all that apply)

Fabricated Structures ☒ Manure storage pond ☐ Manure treatment lagoon ☐
Combination ☐

Fabricated Structure

- **Type of fabricated structure:**

(Check all that apply)

Stacking pad/bunker/etc ☐ Concrete block or stave pit ☐
Deep pit ☒ Above ground tank (metal/concrete/other) ☐
High-rise ☐ Manure storage barn (for belt-battery, etc) ☐
Compacted earthen floor concrete pit ☐ Other- ☐

There are 2- deep pit barns. Barn 1 pit's operating level is 7 feet and has a storage capacity for 1,079,636 gallons. Barn 2 pit's operating level is 6.8 feet and has a storage capacity for 1,029,322 gallons. The mortality compost structure includes 4 bays that are 5 feet tall and has a storage capacity for 69.6 tons. Currently, the compost structure is being roofed.

- **Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff?**

Yes ☒ No ☐ N/A ☐

- **Are records maintained on storage capacity or manure volume?**

Yes ☒ No ☐ N/A ☐

Date	Source	Maximum Operating Level	Storage remaining
5/31/14	1 -west	7'	31.2"
5/31/14	2 - east	6.8'	27"
5/31/14	Compost	5'	3'

A customized weekly form was developed that includes areas to document inspections of manure storage structures for manure levels, structural integrity, vegetation, mortality compost levels, sump pit and insect and rodent control. Jamie performs inspections each Saturday. Excellent records maintained.

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?

Yes ☒ No ☐ N/A ☐

- Do the inspections match the frequency in the manure management plan?

Yes ☒ No ☐ N/A ☐

- Are these regular inspections properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

Manure Storage Pond or Manure Treatment Lagoon – this section N/A

IV. MANURE MANAGEMENT

- Is the schedule for manure removal or manure residual removal outlined in the manure management plan?

Yes ☒ No ☐ N/A ☐

- List the number of acres utilized for land application. (Include both land that is owned and land that is leased).

Acres owned	
Acres leased	
Other land	
Total acres	528

- Was manure applied on snow-covered or frozen ground?

Yes ☐ No ☒ N/A ☐

* If so, was the application site approved for application?

Yes ☐ No ☐ N/A ☒

- Is manure distributed through Distribution and Utilization methods?

Yes ☒ No ☐ N/A ☐

- If Distribution and Utilization method of manure removal was used, were Appendices A, B, F and the most recent manure analysis given to the recipient of the manure?

Yes ☒ No ☐ N/A ☐

- Is the record for the Distribution and Utilization of manure maintained in the operation record?

Yes ☒ No ☐ N/A ☐

Date	Source	Amount	Destination
10/2013	1 & 2	222,960 g	Barga Farms

Soil Characteristics

- Are all soil analysis properly recorded in the operating record for the last five years?
(The analysis records must be taken every three years)

Yes ☒ No ☐ N/A ☐

- Are the soil samples representative of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less? Yes ☒ No ☐ N/A ☐

- Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test?

* If so, list those fields.

Yes ☐ No ☒ N/A ☐

Soil tests were completed in December, 2010 & October, 2013 on all land in PTO. Results to be done using Mehlich III measured in ppm. Soil tests shall be done at least once every 3 years as required by ODA Rules. There are very good maps of each field that would be very useful to use to record manure applications. We discussed this during the inspection.

FIELD ID	DATE SAMPLED	Mehlich III ppm	DATE SAMPLED	Mehlich III ppm
BR1 AW	12/2010	29	10/2/13	33
BR1 BW	12/2010	42	10/2/13	19
BR1 AE	12/2010	32	10/2/13	25
BR1 BE	12/2010	45	10/2/13	38
BR2 AW	12/2010	35	10/2/13	23
BR2 BW	12/2010	33	10/2/13	45
BR2 AE	12/2010	33	10/2/13	18
BR2 BE	12/2010	21	10/2/13	47
J AW	12/2010	21	10/2/13	47
J AM	12/2010	34	10/2/13	44
J AE	12/2010	33	10/2/13	64
J B	12/2010	34	10/2/13	74

Nutrient Budget

- Is commercial fertilizer used?

Yes ☒ No ☐ N/A ☐

*If so, list amount of commercial fertilizer used
Excellent records.

- Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record? Yes ☒ No ☐ N/A ☐

Cropping Schedules

- Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record? Yes ☒ No ☐ N/A ☐

- Is the crop yield for each site properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

- Is the actual crop yield for each site properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

Application Records

- If liquid manure is applied, are drain plugs being used?

Yes ☐ No ☒ N/A ☐

Have if needed. Manure has been custom applied by WWA Farms, which are Certified Livestock Managers (CLM). They maintain the manure application records.

DATE	SOURCE	AMOUNT	FIELD/acres	RATE	Soil P – sample date
11/7/12	Barn 1	417,000 g	Jamies 90 / 49.9 ac (1/2 field)	8,356 g/a	50, 16 ppm - 12/10
11/7/12	Barn 2	325,470 g	Jamies 90 / 44.1 ac (other 1/2 of field)	7,380 g/a	16-26 ppm - 12/10
1/26/13	Compost	20 ton	JAЕ / 4 ac	5 t/a	33 ppm - 12/10
10/11/13	Barn 2	560,000 g	Brandt / 70 ac	8,000 g/a	18-47 ppm - 10/2013
10/11/13	Barn 1	190,000 g	Brandt / 47.5 ac	4,000 g/a	18-47 ppm - 10/2013
10/12/13	Barn 1	236,000 g	Jamies / 59 acres	4,000 g/a	44-74 ppm - 10/2/13

- If liquid manure is applied, are observations of subsurface drains properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

- Has the equipment for land application been inspected, maintained and properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

Manure is custom applied by WWA Farms, which are Certified Livestock Managers (CLM). They maintain the records.

- Are there records in the operating record on soil conditions at times of application, such as soil cracks

Yes ☒ No ☐ N/A ☐

- Are application rates and nutrients applied in accordance with ODA rules for nitrogen and phosphorus?

Yes ☒ No ☐ N/A ☐

As a reminder, you must watch those application rates carefully, due to the higher P205 levels.

- Are liquid application rates based on the Available Water Capacity chart?

Yes ☒ No ☐ N/A ☐

- Are there records of general weather conditions, temperature and rainfall 24 hours before and after manure applications?

Yes ☒ No ☐ N/A ☐

- Are setbacks maintained and properly recorded in the operation record?

Yes ☒ No ☐ N/A ☐

- Is there evidence of documented use of vegetative cover to protect stream channels?

Yes ☒ No ☐ N/A ☐

V. INSECT AND RODENT CONTROL

- Is the insect and rodent control plan properly implemented by the owner or operator or manager?

Yes ☒ No ☐ N/A ☐

- Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities?

Yes ☒ No ☐ N/A ☐

- Are these inspections properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Is proper maintenance of the watering system properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Are daily inspections of drinking water lines being made and recorded in the operating record?
Yes ☒ No ☐ N/A ☐

VI. MORTALITY MANAGEMENT

- What type of mortality management does the facility have?
 - Are there inspection records properly recorded in the operating record on mortality?
Yes ☒ No ☐ N/A ☐
 - Are Best Management Practices being utilized?
Yes ☐ No ☐ N/A ☒
- Did not view during this inspection.

VII. OPERATING RECORD – GENERAL

- Are all operating records up-to-date and available for review by the inspector?
Yes ☒ No ☐ N/A ☐
- Is a copy of the RCC, PTI, PTO and/or NPDES permit with the operating record or located in the site office?
Yes ☒ No ☐ N/A ☐
- Have the operating records been retained by the owner or operator for a minimum of five years?
Yes ☒ No ☐ N/A ☐
- Since the last inspection, have any operational changes been made at the facility?
Yes ☐ No ☒ N/A ☐

VIII. VISUAL INSPECTIONS AND OUTSIDE INFORMATION

Due to biosecurity concerns, on-site facility inspection not completed, therefore these are marked n/a.

Water Quality Impacts

- Is there evidence of actual offsite discharge? Yes ☐ No ☐ N/A ☒
- Are there areas of concern for water quality impacts? Yes ☐ No ☐ N/A ☒
- Is the water well location maintained in a proper manner to avoid contamination?
Yes ☐ No ☐ N/A ☒

Describe the upkeep and general appearance of the following

Due to biosecurity concerns, on-site facility inspection not completed, therefore this section is n/a.

	Above Average	Average	Below Average	Poor	Comments
Dikes and Diversion Ditches					
Berms					
Embankments					
Pipe Runs					
Grassed Waterways					
Vegetative Cover					
Settling Basins					
Feed System					
Storage Areas					
Watering System					
Walkways or Walk Areas Inside Building					
Walkways or Walk Areas Outside Building					
Ventilation Systems, i.e. Fans					
Others					

VIII. SUMMARY

Were the results of the inspection discussed with the owner, operator, manager, representative or livestock manager?

Yes ☒ No ☐ N/A ☐

Reminder Actions:

- The renewal application for the expiring PTO will be due by no later than February 19, 2016.
- Groundwater tests are due now (June) and are planned in conjunction with manure sampling.
- Manure analyses are due prior to application in 2014.
- Review those soil tests that are due in 2014.
- Carefully monitor the application rates of P205 due to the higher levels in the manure.

"I certify that this information was reviewed with the owner, operator, manager, or representative of the facility."

Christine Pence

6/4/14

Signature of Inspector

Date

Cc: Darke SWCD



Department of
Agriculture

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
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Inspector Dan Bruner
Inspection Start Time 9:00 am

Date of Inspection 6/16/2014

Type of Inspection

1st Routine ☒ 2nd Routine ☐ 3rd Routine ☐ Other ☐

Facility

Owner\Operator

Name	Fox Tail			Name	Cooper Farms		
Address	9496 Jericho Road			Address	PO Box 339		
City	Hicksville	OH	43526	City	Ft. Recovery	OH	45846
Phone	419-594-3324			Phone	419-375-4116		
Email				Email			

Contact Person

Name	Kevin Stuckey	Telephone	
Email	kevins@cooperfarms.com	Cell	419-786-9576

Permit Information

Permit Number	20-189-PTO-001	Expiration Date	9/5/2018
Permit Modification		Effective Date	
Major Operational Change		Effective Date	

20-189-PTI-001: Expansion to 3,675 swine with addition of acclimation building and enlargement of gestation building. Final stocking approval and PTI closeout letter issued 1-28-2014.

Certified Livestock Manager

Name	Certificate Number	Expiration Date	CEUs	CEU's Needed
Bill Knapke	16	12-31-2016	0	10
Kevin Stuckey	45	12-31-2014	4.5	5.5
Rob Weible	199	12-31-2015	5	5

Bio-security Information:

Inspector followed facility or industry bio-security plan Yes ☒ No ☐ N/A ☐
(whichever is more stringent)

No wild turkey hunting 48 hours prior. No contact with swine, feathered species or zoo 72 hours prior. No visits to processing plants, rendering plants, hatcheries or feed mills 72 hours prior. Clean footwear and clothing. Additional restriction procedures if barns are entered or disease outbreak occurs.

I. FACILITY OPERATION INFORMATION

Number and Type of Animals

Animal Type	Existing Number of Animals (leave blank if facility is new)	Maximum Number of Animals (for new or expanding facilities)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)		
Swine over 55 pounds	2,400	3,675
Swine under 55 pounds		
Laying hens		
Broilers		
Pullets		
Other:		

Number of Employees	12
Type of Feed System	Dry

II. WATER SYSTEM

Water Supply Sources

- Is there a well located at the facility?

Yes ☒ No ☐ N/A ☐

How Many? 1

- Is water treatment used?

Yes ☒ No ☐ N/A ☐

If so, where does back flush go?

Injected chlorine system, there is no back flush.

Drinking Groundwater Sampling

- Are records of the groundwater sampling analysis properly recorded in the operation record?

Yes ☒ No ☐ N/A ☐

List the dates of the last samples taken.

Groundwater Sample Results

Source	Date	TCR	Nitrate
Well	2-14-13	Neg.	<0.10 mg/l
Well	2-25-14	Neg.	<0.10 mg/l

Groundwater Monitoring

- Are groundwater monitoring wells requires?

Yes ☐ No ☒ N/A ☐

If yes, list results.

Agricultural Drainage Well

- Is there indication of an agricultural drainage well (Class V well) on the property?

If yes, is the agricultural drainage well likely to have runoff?

Yes ☐ No ☒ N/A ☐

Yes ☐ No ☐ N/A ☒

Other Waste, Chemicals and Contaminants

- Is there a sanitary permit for this facility?

Yes ☒ No ☐ N/A ☐

- If yes, does the sanitary go to the manure storage and treatment facility?

Yes ☒ No ☐ N/A ☐

- If yes, is it permitted to do so?

Yes ☒ No ☐ N/A ☐

OEPA permit #918781 issued 1-30-2013. The sanitary goes to a septic tank and then to 3 peat filters. It is then discharged to the lagoon.

- Is all other waste, including medical waste, cleaning solutions, pesticides, fertilizers, herbicides and other contaminants stored/handled in a manner that will not discharge into a manure storage or treatment facility?

Yes ☒ No ☐ N/A ☐

- If no, provide brief explanation and if the discharge into the manure storage or treatment facility is permitted/allowed.

III. MANURE STORAGE AND TREATMENT FACILITIES

Type of Manure

(check all that apply)

Liquid ☒ Solid ☒

- Annual manure analysis on file?

Yes ☒ No ☐ N/A ☐

Manure Sample Results (Solids measured in #/ton – liquid measured in #/1,000gal.)

Source	Date	Moisture %	NH ₄ -N	Organic N	P ₂ O ₅	K ₂ O	Agitated
Lagoon	4-17-14	99.85	1.49	.58	.41	1.82	No
Compost	4-17-14	56.03	.89	1.14	1.92	1.17	NA

- Type of manure storage or treatment facility:

(Check all that apply)

Fabricated Structures



Manure storage pond



Manure treatment lagoon



Combination



Fabricated Structure

- Type of fabricated structure:

(Check all that apply)

- | | | | |
|--------------------------------------|--------------------------|---|-------------------------------------|
| Stacking pad/bunker/etc | <input type="checkbox"/> | Concrete block or stave pit | <input type="checkbox"/> |
| Deep pit | <input type="checkbox"/> | Above ground tank (metal/concrete/other) | <input type="checkbox"/> |
| High-rise | <input type="checkbox"/> | Manure storage barn (for belt-battery, etc) | <input type="checkbox"/> |
| Compacted earthen floor concrete pit | <input type="checkbox"/> | Other - Compost Barn | <input checked="" type="checkbox"/> |

- Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff?

Yes ☐ No ☐ N/A ☒

- Are records maintained on storage capacity or manure volume?

Yes ☒ No ☐ N/A ☐

Structure	Date	Maximum Operating Level	Current Manure Level	Storage remaining
Compost Barn	6-13-14	100%	65%	35%

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?

Yes ☒ No ☐ N/A ☐

- Do the inspections match the frequency in the manure management plan?

Yes ☒ No ☐ N/A ☐

Monthly inspections documented.

- Are these regular inspections properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

Manure Storage Pond or Manure Treatment Lagoon

- Type of manure storage pond or manure treatment lagoon (and approximate dimensions)

(Check all that apply)

Earthen manure storage pond ☐ Earthen manure treatment lagoon ☒ N/A ☐

A single stage anaerobic treatment lagoon with a minimum treatment volume of 12,069,470 gallons with manure, storage volumes of 6,317,233 gallons, providing approximately 364 days of storage.

(Explain number of ponds/lagoons, type of liner system installed (plastic, re-compacted soil, in-situ soil, etc.))

- Is there twelve-inches of freeboard, plus the volume needed to contain the appropriate design storm, if the structure is subject to rainfall and runoff?

Yes ☒ No ☐ N/A ☐

- Are records maintained on storage capacity or manure volume?

Yes ☒ No ☐ N/A ☐

Structure	Date	Maximum Operating Level	Current Manure Level	Storage remaining
Lagoon	6-13-14	187"	167"	20"

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?
Yes ☒ No ☐ N/A ☐
- Is there evidence in the operating record of weekly inspections of stormwater conveyances, diversion devices and devices channeling contaminated stormwater to the manure storage pond or manure treatment lagoon?
Yes ☒ No ☐ N/A ☐
- Do the inspections match the frequency in the manure management plan?
Yes ☒ No ☐ N/A ☐
- Are these regular inspections properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Is the level indicator(s) conspicuously located and properly functioning in the manure storage pond or manure treatment lagoon?
Yes ☒ No ☐ N/A ☐
- Is the vegetation near the manure storage pond or the manure treatment lagoon properly maintained?
Yes ☒ No ☐ N/A ☐
- Are the maintenance inspections for stormwater conveyances, runoff diversion structures, devices channeling contaminated stormwater, etc. properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐

IV. MANURE MANAGEMENT

- Is the schedule for manure removal or manure residual removal outlined in the manure management plan?
Yes ☒ No ☐ N/A ☐

Field: The field number or name.

Date: Date of manure application.

Tons / Gals: Tons or gallons applied to the field.

Storage: Storage structure manure was removed from.

Acres: The acres of the field applied to.

Lbs P Applied: The pounds of P applied to the field from the manure application(s).

P Level: The phosphorus value of the field as reported at the time of application in ppm/acre

Field	Year			Year			Year		
	Date	Tons/gals Storage	Acres Lbs P applied P Level ppm/acre	Date	Tons/gals Storage	Acres Lbs P applied P Level ppm/acre	Date	Tons/gals Storage	Acres Lbs P applied P Level ppm/acre

(The analysis records must be taken every three years)

Yes ☒ No ☐ N/A ☐

- Are the soil samples representative of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less?

Yes ☒ No ☐ N/A ☐

- Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test?

* If so, list those fields.

Yes ☐ No ☒ N/A ☐

Nutrient Budget - This is the first crop year since permitted.

- Is commercial fertilizer used?

Yes ☒ No ☐ N/A ☐

*If so, list amount of commercial fertilizer used

Commercial fertilizer information was not available at time of inspection.

- Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record?

Yes ☐ No ☐ N/A ☒

Cropping Schedules- This is the first crop year since permitted.

- Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record?

Yes ☐ No ☐ N/A ☒

- Is the crop yield for each site properly recorded in the operating record?

Yes ☐ No ☐ N/A ☒

- Is the actual crop yield for each site properly recorded in the operating record?

Yes ☐ No ☐ N/A ☒

Crop	2014	2015	2016	2017	2018
Corn					
Soybeans					
Wheat					

Application Records- This is the first season for application since permitting.

- If liquid manure is applied, are drain plugs being used?

Yes ☒ No ☐ N/A ☐

- If liquid manure is applied, are observations of subsurface drains properly recorded in the operating record?

No manure has been applied since permitting.

Yes ☐ No ☐ N/A ☒

- Has the equipment for land application been inspected, maintained and properly recorded in the operating record?
New 53 acre center pivot is installed and ready for use. Yes ☒ No ☐ N/A ☐
- Are there records in the operating record on soil conditions at times of application, such as soil cracks Yes ☐ No ☐ N/A ☒
- Are application rates and nutrients applied in accordance with ODA rules for nitrogen and phosphorus? Yes ☐ No ☐ N/A ☒
- Are liquid application rates based on the Available Water Capacity chart? Yes ☐ No ☐ N/A ☒
- Are there records of general weather conditions, temperature and rainfall 24 hours before and after manure applications? Yes ☐ No ☐ N/A ☒
- Are setbacks maintained and properly recorded in the operation record? Yes ☐ No ☐ N/A ☒
- Is there evidence of documented use of vegetative cover to protect stream channels? Yes ☐ No ☐ N/A ☒

V. INSECT AND RODENT CONTROL

- Is the insect and rodent control plan properly implemented by the owner or operator or manager? Yes ☒ No ☐ N/A ☐
- Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities? Yes ☒ No ☐ N/A ☐
- Are these inspections properly recorded in the operating record? Yes ☒ No ☐ N/A ☐
The rodent traps and fly spec cards are checked and recorded each week.
- Is proper maintenance of the watering system properly recorded in the operating record? Yes ☒ No ☐ N/A ☐
- Are daily inspections of drinking water lines being made and recorded in the operating record? Yes ☒ No ☐ N/A ☐

VI. MORTALITY MANAGEMENT

- What type of mortality management does the facility have?

Composting is done in the mortality compost barn.

- Are there inspection records properly recorded in the operating record on mortality?

Yes ☒ No ☐ N/A ☐

- Are Best Management Practices being utilized?

Yes ☒ No ☐ N/A ☐

VII. OPERATING RECORD – GENERAL

- Are all operating records up-to-date and available for review by the inspector?

Yes ☒ No ☐ N/A ☐

- Is a copy of the RCC, PTI, PTO and/or NPDES permit with the operating record or located in the site office?

Yes ☒ No ☐ N/A ☐

- Have the operating records been retained by the owner or operator for a minimum of five years?

Yes ☐ No ☐ N/A ☒

Since permitting.

- Since the last inspection, have any operational changes been made at the facility?

Yes ☒ No ☐ N/A ☐

A new center pivot has been installed and is ready for irrigation this summer. The acclimation barn is finished and stocked.

VIII. VISUAL INSPECTIONS AND OUTSIDE INFORMATION

Water Quality Impacts

- Is there evidence of actual offsite discharge?

Yes ☐ No ☒ N/A ☐

- Are there areas of concern for water quality impacts?

Yes ☐ No ☒ N/A ☐

- Is the water well location maintained in a proper manner to avoid contamination?

Yes ☒ No ☐ N/A ☐

Describe the upkeep and general appearance of the following

	Above Average	Average	Below Average	Poor	Comments
Dikes and Diversion Ditches	X				
Berms	X				
Embankments	X				
Pipe Runs	X				
Grassed Waterways					NA
Vegetative Cover			X		Some bare spots from construction
Settling Basins					NA
Feed System	X				
Storage Areas	X				
Watering System	X				
Walkways or Walk Areas Inside Building	X				
Walkways or Walk Areas Outside Building	X				
Ventilation Systems, i.e. Fans	X				
Others					

VIII. SUMMARY

Were the results of the inspection discussed with the owner, operator, manager, representative or livestock manager?

Yes ☒ No ☐ N/A ☐

The results of this inspection were discussed with Bill Knapke, Kevin Stuckey and Rob Weible at the time of the inspection.

Required Actions:

1. Dates, rates, quantities and methods of application of nutrients, and forms of commercial fertilizer, or other organic by-products need to be properly recorded in the operating record.
2. Seeding's already completed on construction disturbed areas but must be monitored and reseeded as necessary.

Reminder Actions:

Recommended Actions:

1. Use of a pre-sidedress nitrogen test is highly recommended to help avoid over or under application of commercial nitrogen.
2. Target soil test levels should be maintained as close to agronomic sufficiency levels as possible, 15-30 ppm or 30-60 lbs/acre for corn and soybeans and 25-40 ppm or 50-80 lbs/acres for wheat and alfalfa. This allows for multiple year nutrient application and the buildup and drawdown of nutrients without causing deficiencies or increasing environmental risks.
3. Any fields that receive more than one application of manure per growing season should have nitrogen fertilizer rates adjusted so as not to exceed the next crops needs.

"I certify that this information was reviewed with the owner, operator, manager, or representative of the facility."

Daniel A. Bruner

Signature of Inspector

6-16-2014

Date

Attachment:

Cc:



Department of
Agriculture

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
A.B. Graham Building
8995 East Main Street, Reynoldsburg, OH 43068
Phone: 614-387-0470 • Fax: 614-728-6335
www.agri.ohio.gov • lepp@agri.ohio.gov

Inspector Christine Pence
Inspection Start Time 1:00 p.m.

Date of Inspection 6/30/14

Type of Inspection

1st Routine ☐ 3rd Routine ☐
2nd Routine ☒ Other ☐

Facility

Owner\Operator

Name	Strickler Farms, LLC			Name	Neil and Theresa Strickler		
Address	7600 Strickler Rd. (do not mail)			Address	6115 Amanda-Clearport Rd.		
City	Amanda	Ohio	Zip 43102	City		Ohio	
Phone	740-969-4272			Phone			
Email	ntstrickler@frontier.com			Email			

Contact Person

Name	Neil and Theresa Strickler	Telephone	740-969-4272
Email	ntstrickler@frontier.com	Cell	740-438-3721

Permit Information

Permit Number	23-016-PTO-003	Expiration Date	4/4/2019
Permit Modification		Effective Date	
Major Operational Change		Effective Date	

Certified Livestock Manager

Name	Certificate Number	Expiration Date	CEUs / Date
	n/a		

Bio-security Information:

Inspector followed facility or industry bio-security plan Yes ☒ No ☐ N/A ☐
(whichever is more stringent)

Viewed facility from Theresa's vehicle. All questions pertaining to on-site inspections are not answered since on-site inspection of each manure storage structure was not made due to biosecurity precautions

I. FACILITY OPERATION INFORMATION

Number and Type of Animals

Animal Type	Existing Number of Animals (leave blank if facility is new)	Maximum Number of Animals (for new or expanding facilities)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)		
Swine over 55 pounds	3,131	3,500
Swine under 55 pounds	1,043	1,000
Laying hens		
Broilers		
Pullets		
Other:		

Number of Employees	family
Type of Feed System	solid

Barn	Barn #40	Quad 1-4	Nursery
Capacity	2,400	1,100	1,000

II. WATER SYSTEM

Water Supply Sources

- Is there a well located at the facility?

Yes ☒ No ☐ N/A ☐

How Many? 3

- Is water treatment used?

Yes ☐ No ☒ N/A ☐

If so, where does back flush go?

Drinking Groundwater Sampling

- Are records of the groundwater sampling analysis properly recorded in the operation record?

Yes ☒ No ☐ N/A ☐

List the dates of the last samples taken.

Groundwater Sample Results

Sample Date	Nitrate	Fecal Coliform
April 18, 2013	<1.0 ppm	<10/100 ml
March 7, 2014	<1.0 ppm	<10/100 ml

Groundwater Monitoring

- Are groundwater monitoring wells required? Yes ☐ No ☒ N/A ☐
If yes, list results.

Agricultural Drainage Well

- Is there indication of an agricultural drainage well (Class V well) on the property? Yes ☐ No ☒ N/A ☐
If yes, is the agricultural drainage well likely to have runoff? Yes ☐ No ☐ N/A ☒

Other Waste, Chemicals and Contaminants

- Is there a sanitary permit for this facility? Yes ☐ No ☒ N/A ☐
 - If yes, does the sanitary go to the manure storage and treatment facility?
 - If yes, is it permitted to do so? Yes ☐ No ☐ N/A ☒
- Are all other waste, including medical waste, cleaning solutions, pesticides, fertilizers, herbicides and other contaminants stored/handled in a manner that will not discharge into a manure storage or treatment facility? Yes ☒ No ☐ N/A ☐
- If no, provide brief explanation and if the discharge into the manure storage or treatment facility is permitted/allowed.

III. MANURE STORAGE AND TREATMENT FACILITIES

Type of Manure

(check all that apply) Liquid ☒ Solid ☒

- Annual manure analysis on file? Yes ☒ No ☐ N/A ☐

Manure Sample Results (Solids measured in #/ton – liquid measured in #/1,000g)

Type Manure	Date	Moisture %	Nitrogen		P ₂ O ₅ /ton or gal	K ₂ O/ton or gal
			Total	Organic		
Barn #40	2/24/2012	95.41 %	30.5#/1000 gal	9.6#/1000 gal	33.9#/1000 gal	27.0#/1000 gal
Barn #40	7/29/2013	96.3 %	13.0 #/1000 gal	10.4 #/1000 gal	18.3 #/1000 gal	27.0 #/1000 gal
Barn #40	3/7/2014	94.74	33.1 #/1000 gal	10.4 #/1000 gal	36.5 #/1000 gal	28.7 #/1000 gal
MS Pond	2/24/2012	98.81 %	13.9#/1000 gal	5.2#/1000 gal	4.4#/1000 gal	16.5#/1000 gal
MS Pond	3/19/2013	98.90 %	11.3 #/1000 gal	4.4 #/1000 gal	3.5 #/1000 gal	15.7 #/1000 gal
MS Pond	3/7/2014	99.38	9.6 #/1000 gal	4.4 #/1000 gal	1.7 #/1000 gal	7.0 #/1000 gal
Compost	2/24/2012	71.41 %	2.6#/ton	2.6#/ton	0.6#/ton	1.2#/ton
Compost	3/19/2013	64.36 %	0.0#/Ton	4.4#/ton	1.2#/ton	1.6#/ton
Compost	3/7/2014	77.28	1.8 #/Ton	1.4 #/Ton	2.8 #/Ton	1.2 #/Ton

- Type of manure storage or treatment facility:

(Check all that apply)

Fabricated Structures ☒ Manure storage pond ☒ Manure treatment lagoon ☐
Combination ☐

Fabricated Structure

- Type of fabricated structure:

(Check all that apply)

Stacking pad/bunker/etc ☒ Concrete block or stave pit ☒
Deep pit ☒ Above ground tank (metal/concrete/other) ☐
High-rise ☐ Manure storage barn (for belt-battery, etc) ☐
Compacted earthen floor concrete pit ☐ Other- ☐

- Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff?

Based upon records. Yes ☒ No ☐ N/A ☐

- Are records maintained on storage capacity or manure volume?

Yes ☒ No ☐ N/A ☐

6/30/14 Record below

Structure	Total Depth less Freeboard	Current Manure Depth
Quad -New Hog Barn #40	7.5 ft	3 feet 7 inches
Quad 1-4 (drains to ms pond)	4.0 feet	2 feet
Earthen Holding Pond	9 ft	4 feet 6 inches
Compost Area	4 bays plus 1 bay for sawdust storage	Bay #1 - 0 Bay #2 = 1/3 Bay #3 = 1/3 Bay #4 - full Bay #5-sawdust

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?

Yes ☒ No ☐ N/A ☐

- Do the inspections match the frequency in the manure management plan?

Yes ☒ No ☐ N/A ☐

- Are these regular inspections properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

Manure Storage Pond or Manure Treatment Lagoon

- Type of manure storage pond or manure treatment lagoon (and approximate dimensions)

(Check all that apply)

Earthen manure storage pond ☒ Earthen manure treatment lagoon ☐ N/A ☐

(Explain number of ponds/lagoons, type of liner system installed (plastic, re-compacted soil, insitu soil, etc.))

Holding pond that receives liquid from Quad 1-4 and nursery. Capacity is 630,000 gallons. MOL is 10.5 feet.

- Is there twelve-inches of freeboard, plus the volume needed to contain the appropriate design storm, if the structure is subject to rainfall and runoff? Yes ☒ No ☐ N/A ☐
- Are records maintained on storage capacity or manure volume? Yes ☒ No ☐ N/A ☐
- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge? Yes ☒ No ☐ N/A ☐
- Is there evidence in the operating record of weekly inspections of stormwater conveyances, diversion devices and devices channeling contaminated stormwater to the manure storage pond or manure treatment lagoon? Yes ☒ No ☐ N/A ☐
- Do the inspections match the frequency in the manure management plan? Yes ☒ No ☐ N/A ☐
- Are these regular inspections properly recorded in the operating record? Yes ☒ No ☐ N/A ☐
- Is the level indicator(s) conspicuously located and properly functioning in the manure storage pond or manure treatment lagoon? Yes ☒ No ☐ N/A ☐

A concrete box installed in the manure storage pond with the inside of the box marked with depths.

- Is the vegetation near the manure storage pond or the manure treatment lagoon properly maintained? Yes ☒ No ☐ N/A ☐
- Are the maintenance inspections for stormwater conveyances, runoff diversion structures, devices channeling contaminated stormwater, etc. properly recorded in the operating record? Yes ☒ No ☐ N/A ☐

IV. MANURE MANAGEMENT

- Is the schedule for manure removal or manure residual removal outlined in the manure management plan? Yes ☒ No ☐ N/A ☐
- List the number of acres utilized for land application. (Include both land that is owned and land that is leased).

Acres owned	
Acres leased	
Other land	
Total acres	1,605

Additional land recently acquired, the Bussert Farm consisting of 178 acres. Soil tests were done and current.

Manure	Year 2013		Year March 2014		Year	
Type	Tons/gals	acres	Tons/gals	Field/acres	Tons/gals	acres
Manure Pond	852,000 gallons	E-NCC 32 acres DupD -17 acres DupN -10 acres E63 -40 acres DupA/ECP-33 acres	288,000 g 252,000 g	E-92-low/48 ac E-92-upper/ 42 ac		
Barn #40	486,000 gallons	DupD -22 acres Dup N 19 acres DupB 23 acres DupC 18 acres	306,000 g 228,000 g	Kull-to/mid /51 ac DupD/38 ac (field is 83 ac)		
Compost	26 tons	SF-HP, E63, Dup B 9 acres	8 ton	E63-1acre		
Totals	1,338,000 gallons 8 tons	223 acres 13 acres				

When determining manure application rates, be sure to keep the Phosphate applications under 250 #/acre.

Also as a reminder, the maximum, summer time, application rate of Available Nitrogen is limited to 50 #/acre if the field is a high Nitrogen leaching field (tile drainage would make it high leaching) and there is no growing crop before Oct. 1st. Keep in mind that if applying nitrogen to a grass or legume cover crop that is growing or being established immediately after manure application, manure can be applied at the recommended nitrogen rate for the next non-legume crop.

- Was manure applied on snow-covered or frozen ground? Yes ☐ No ☒ N/A ☐
* If so, was the application site approved for application? Yes ☐ No ☐ N/A ☒
- Is manure distributed through Distribution and Utilization methods? Yes ☐ No ☒ N/A ☐
- If Distribution and Utilization method of manure removal was used, were Appendices A, B, F and the most recent manure analysis given to the recipient of the manure? Yes ☐ No ☐ N/A ☒
- Is the record for the Distribution and Utilization of manure maintained in the operation record? Yes ☐ No ☐ N/A ☒

Date	Source	Amount	Destination

Soil Characteristics

- Are all soil analysis properly recorded in the operating record for the last five years? (The analysis records must be taken every three years) Yes ☒ No ☐ N/A ☐

Soil tests are all current. Done in December 2013 and March 2014. Copies were provided during this inspection.

- Are the soil samples representative of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less? Yes ☒ No ☐ N/A ☐
- Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test?
* If so, list those fields. Yes ☐ No ☒ N/A ☐

Nutrient Budget

- Is commercial fertilizer used? Yes ☒ No ☐ N/A ☐
*If so, list amount of commercial fertilizer used

Based on soil tests and consultant recommendations. To spread the work load, ½ the acres had NH₄ applied pre plant and ½ the acres had 28% applied post emerge.

- Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

Cropping Schedules

- Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record? Yes ☒ No ☐ N/A ☐
- Is the crop yield for each site properly recorded in the operating record? Yes ☒ No ☐ N/A ☐
- Is the actual crop yield for each site properly recorded in the operating record? Yes ☒ No ☐ N/A ☐

Crop Schedule below.

Crop	2011	2012	2013	2014	2015
Corn	852.7	935.5	826.4	834	
Soybeans	618.3	638.7	695.2	659	
Wheat	105.7	107.4	98.4	112	

Crop Yields below.

Crop	2013	2012
Corn	205.2 bu/a	111.6 bu/a
Soybeans	69.6 bu/a	45.75 bu/a
Double Crop SB		
Wheat	97.7 bu/a	77.1 bu/a

Additional land recently acquired, the Bussert Farm consisting of 178 acres.

Application Records

- If liquid manure is applied, are drain plugs being used? Yes ☒ No ☐ N/A ☐
- If liquid manure is applied, are observations of subsurface drains properly recorded in the operating record? Yes ☒ No ☐ N/A ☐

- Has the equipment for land application been inspected, maintained and properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Are there records in the operating record on soil conditions at times of application, such as soil cracks
Yes ☒ No ☐ N/A ☐
- Are application rates and nutrients applied in accordance with ODA rules for nitrogen and phosphorus?
Yes ☒ No ☐ N/A ☐
- Are liquid application rates based on the Available Water Capacity chart?
Yes ☒ No ☐ N/A ☐
- Are there records of general weather conditions, temperature and rainfall 24 hours before and after manure applications?
Yes ☒ No ☐ N/A ☐
- Are setbacks maintained and properly recorded in the operation record?
Yes ☒ No ☐ N/A ☐
- Is there evidence of documented use of vegetative cover to protect stream channels?
Yes ☒ No ☐ N/A ☐

V. INSECT AND RODENT CONTROL

- Is the insect and rodent control plan properly implemented by the owner or operator or manager?
Yes ☒ No ☐ N/A ☐
- Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities?
Yes ☒ No ☐ N/A ☐
- Are these inspections properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Is proper maintenance of the watering system properly recorded in the operating record?
Yes ☒ No ☐ N/A ☐
- Are daily inspections of drinking water lines being made and recorded in the operating record?
Yes ☒ No ☐ N/A ☐

VI. MORTALITY MANAGEMENT

- What type of mortality management does the facility have?
Mortality is composted on site.
- Are there inspection records properly recorded in the operating record on mortality?
Yes ☒ No ☐ N/A ☐

- Are Best Management Practices being utilized? Yes ☒ No ☐ N/A ☐

VII. OPERATING RECORD – GENERAL

- Are all operating records up-to-date and available for review by the inspector? Yes ☒ No ☐ N/A ☐
- Is a copy of the RCC, PTI, PTO and/or NPDES permit with the operating record or located in the site office? Yes ☒ No ☐ N/A ☐
- Have the operating records been retained by the owner or operator for a minimum of five years? Yes ☒ No ☐ N/A ☐
- Since the last inspection, have any operational changes been made at the facility? Yes ☐ No ☒ N/A ☐

VIII. VISUAL INSPECTIONS AND OUTSIDE INFORMATION

Water Quality Impacts

- Is there evidence of actual offsite discharge? Yes ☐ No ☒ N/A ☐
- Are there areas of concern for water quality impacts? Yes ☐ No ☒ N/A ☐
- Is the water well location maintained in a proper manner to avoid contamination? Yes ☒ No ☐ N/A ☐

Describe the upkeep and general appearance of the following

	Above Average	Average	Below Average	Poor	Comments
Dikes and Diversion Ditches					N/A
Berms					N/A
Embankments	X				
Pipe Runs	X				
Grassed Waterways	X				
Vegetative Cover	X				
Settling Basins					N/A
Feed System	X				
Storage Areas	X				
Watering System	X				
Walkways or Walk Areas Inside Building	X				
Walkways or Walk Areas Outside Building	X				
Ventilation Systems, i.e. Fans	X				
Others					

VIII. SUMMARY

Were the results of the inspection discussed with the owner, operator, manager, representative or livestock manager?

Yes ☒ No ☐ N/A ☐

During this inspection, we discussed plans for Neil and Theresa's son to construct a hog barn next to the permitted facility. ODA understands that the son will own and be solely responsible for the operation of this facility, as well as management of manure. ODA also understands that the son is getting a CNMP for his facility. We reviewed the requirements to keep land application areas separate from the permitted facility's manure application area, as well as any mortality composting operations. No sharing of manure or compost on land that is currently in this PTO. If any land in the current PTO is planned to receive manure from the new hog barn, then that land must be removed from the PTO's MMP PRIOR to manure application through a Permit Operational Change.

Required Actions:

- None at this time

Reminder Actions:

- 2014 Annual Report will be due by January 31, 2015.
- When determining manure application rates, be sure to keep the Phosphate applications under 250 #/acre.
- Also as a reminder, the maximum, summer time, application rate of Available Nitrogen is limited to 50 #/acre if the field is a high Nitrogen leaching field (tile drainage would make it high leaching) and there is no growing crop before Oct. 1st. Keep in mind that if applying nitrogen to a grass or legume cover crop that is growing or being established immediately after manure application, manure can be applied at the recommended nitrogen rate for the next non-legume crop.

"I certify that this information was reviewed with the owner, operator, manager, or representative of the facility."

Christine Pence

6/30/14

Signature of Inspector

Date

Theresa Strickler representing Strickler Farms, LLC and Christine Pence representing the ODA-DLEP reviewed and discussed the items in this inspection report.

Cc: Fairfield SWCD

David Libben – Fairfield County, USDA-NRCS

Christine Pence – ODA-DLEP Inspector



Department of
Agriculture

Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Division of Livestock Environmental Permitting
A.B. Graham Building
8995 East Main Street, Reynoldsburg, OH 43068
Phone: 614-387-0470 • Fax: 614-728-6335
www.agri.ohio.gov • lepp@agri.ohio.gov

Inspector Jim Young and Sam Mullins
Inspection Start Time 12:30 PM 4-21-15

Date of Inspection 4/21/2015

Type of Inspection

1st Routine ☒ 3rd Routine ☐
2nd Routine ☐ Other ☐

Facility

Owner\Operator

Name	Croton Layer #3			Name	Ohio Fresh Eggs, LLC		
Address	11652 Clover Valley Road			Address	10513 Croton Road		
City	Croton	Ohio	Zip 43013	City	Croton	Ohio	43013
Phone	740-817-2074 (Bob Bellard, Production Manager)			Phone	740-817-0279 (Ramchand Almoro, Director of Operations)		
Email	bbellard@trilliumfarmsohio.com			Email	ralmoro@trilliumfarmsohio.com		

Name	Trillium Farm Holdings, LLC		
Address	241 St. Andrews Way		
City	Sioux Center	Iowa	51250
Phone			
Email			

Contact Person

Name	David Gatten	Cell:	614-745-5588
Email:	dgatten@trilliumfarmsohio.com	Regulatory Compliance Officer	
Name	Tabi Smith	Cell:	614-600-0482
Email:	tsmith@trilliumfarmsohio.com	Internal Farm Compliance Officer	
Name	Sheryl Logue	Cell:	614-745-7326
Email:	slogue@trilliumfarmsohio.com	Compliance Manager	
Name	Dave Hasemann	Cell:	614-832-2564
Email:	slogue@trilliumfarmsohio.com	Senior Production Manager	

Permit Information

Permit Number	45-133-PTO-002	Expiration Date	4-11-17
Permit Modification		Effective Date	
Major Operational Change		Effective Date	

Certified Livestock Manager

Name	Certificate Number	Expiration Date	2017 Date
David Gatten	152	2017	10
Phil Budd	217	2014	10
Dave Haseman	334	2015	0
Sheryl Logue	335	2015	10
Al McDougal	355	2015	0
Tabitha Smith	377	2015	10
Ramchad Almoro	414	2017	0
Scott Michalak	353	2015	10

Bio-security Information:

Inspector followed facility or industry bio-security plan Yes ☒ No ☐ N/A ☐
(whichever is more stringent)

No exposure to poultry within 48 hours. Boots and biosecurity suit worn.

I. FACILITY OPERATION INFORMATION

Number and Type of Animals

Animal Type	Existing Number of Animals (leave blank if facility is new)	Maximum Number of Animals (for new or expanding facilities)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)		
Swine over 55 pounds		
Swine under 55 pounds		
Laying hens	1,708,681	2,489,066
Broilers		
Pullets		
Other:		

Number of Employees	Trillium - 26
Type of Feed System	dry

II. WATER SYSTEM

Water Supply Sources

- Is there a well located at the facility?

Yes ☒ No ☐ N/A ☐

How Many? 4

- Is water treatment used?
If so, where does back flush go?

Yes ☐ No ☒ N/A ☐

Drinking Groundwater Sampling

- Are records of the groundwater sampling analysis properly recorded in the operation record?

Yes ☒ No ☐ N/A ☐

List the dates of the last samples taken.

Groundwater Sample Results

Date	Nitrate	TCR
1-7-2010	0.11 mg/l	Negative
1-13-2011	0.14 mg/l	Negative
7-27-2012	0.819 mg/l	Positive
1-21-2013	0.17 mg/l	Negative
1-21-2014	0.25 mg/l	Negative
11-19-2014	0.24 mg/l	Negative

Groundwater Monitoring

- Are groundwater monitoring wells required?
If yes, list results.

Yes ☐ No ☒ N/A ☐

Agricultural Drainage Well

- Is there indication of an agricultural drainage well (Class V well) on the property?

Yes ☐ No ☒ N/A ☐

If yes, is the agricultural drainage well likely to have runoff?

Yes ☐ No ☐ N/A ☒

Other Waste, Chemicals and Contaminants

- Is there a sanitary permit for this facility?

Yes ☒ No ☐ N/A ☐

- If yes, does the sanitary go to the manure storage and treatment facility?

Yes ☐ No ☒ N/A ☐

- If yes, is it permitted to do so?

Yes ☐ No ☐ N/A ☒

- Are all other waste, including medical waste, cleaning solutions, pesticides, fertilizers, herbicides and other contaminants stored/handled in a manner that will not discharge into a manure storage or treatment facility?
Yes ☒ No ☐ N/A ☐
- If no, provide brief explanation and if the discharge into the manure storage or treatment facility is permitted/allowed.

III. MANURE STORAGE AND TREATMENT FACILITIES

Type of Manure

(check all that apply)

Liquid ☒ Solid ☒

- Annual manure analysis on file?

Yes ☒ No ☐ N/A ☐

Manure Sample Results

Barn	Date	Moisture %	NH ₃ lb/T	Org. N lb/T	P ₂ O ₅ lb/T	K ₂ O lb/T
MSB-N	5-7-14	50.47	6.08	61.86	39.64	35.90
MSB-S	5-7-14	45.07	5.24	69.18	38.40	33.72
MSB-N	9-30-14	39.42	-	-	-	-
MSB-S	9-30-14	44.54	-	-	-	-
MSB-N	3-4-15	52.61	-	-	-	-
MSB-S	3-4-15	55.52	-	-	-	-
MSB-N	n/a*					
MSB-S	4-6-15	49.88	7.97	69.53	32.15	31.32

Moisture content is required to be taken monthly and the nutrients annually.

*An updated Manure analysis must be provided to ODA on or before May 29th, 2015

Egg Wash/Stormwater Sampling

Date	Total Phosphorus (mg/l)	Ammonia (mg/l)	Nitrate (mg/l)	P ₂ O ₅ (lb/1000 gal)
9-25-08	0.452	<0.1	<0.1	-
1-8-09	7.2e-7 (lb/1000 gal)	<0.8128 (lb/1000 gal)	<0.8128 (lb/1000 gal)	-
1-7-10	4.5e-6 (lb/1000 gal)	<2.5e1 (lb/1000 gal)	<8.4288 (lb/1000 gal)	-
1-13-11	<0.0115 (lb/1000 gal)	<0.8242 (lb/1000 gal)	<0.8252 (lb/1000 gal)	<0.0115 (lb/1000 gal)
6-22-11	<0.2	<0.3	1.12	-
8-25-11	<0.2	<0.3	<0.1	-
1-11-12	5.536	36.3	2.04	-
4-20-12	<0.2	<0.3	0.1	-
9-12-12	<0.2	0.33	0.13	-
1-21-13	<0.2	<0.3	0.1	-
5-14-13	1.06	0.93	1.1	-
9-17-13	1.6	1.48	0.1	-
1-14-14	1e-5 (lb/1000 gal)	<0.8345 (lb/1000 gal)	-	2.3e-5 (lb/1000 gal)*

*A lab conversion error is suspected in this sample

Egg Wash Sampling

Date	% Total Solids	Ammonia-N (lb/1000 gal)	Nitrate-N (lb/1000 gal)	P ₂ O ₅ (lb/1000 gal)	K ₂ O (lb/1000 gal)
4-10-14	-	0.16	0.09	0.14	0.3
9-5-14	-	0.05	0.09	0.14	0.25
10-23-14	0.127	0.12	0.01	0.19	0.37
10-28-14	0.12	<0.01	<0.01	<0.001	0.33

Storm Water Sampling

Comment: All stormwater is processed and discharged through an ETS system approved and regulated by the OEPA.

- **Type of manure storage or treatment facility:**

(Check all that apply)

Fabricated Structures ☒ Manure storage pond ☒ Manure treatment lagoon ☐
Combination ☐

Fabricated Structure

- **Type of fabricated structure:**

(Check all that apply)

Stacking pad/bunker/etc ☐ Concrete block or stave pit ☐
Deep pit ☐ Above ground tank (metal/concrete/other) ☐
High-rise ☐ Manure storage barn (for belt-battery, etc) ☒
Compacted earthen floor concrete pit ☐ Other- ☐

- Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff?

Yes ☒ No ☐ N/A ☒

- Are records maintained on storage capacity or manure volume?

Yes ☒ No ☐ N/A ☐

Manure Storage Barns

Structure	Date	MOL	Current Level
MSB-N	4/20/15	24 feet	L-8' R-14'
MSB-S	4/20/15	24 feet	L-15' R-10'

In process of cleaning MSB-S

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?

Yes ☒ No ☐ N/A ☐

- Do the inspections match the frequency in the manure management plan?

Yes ☒ No ☐ N/A ☐

Monthly inspections documented.

- Are these regular inspections properly recorded in the operating record?

Yes ☒ No ☐ N/A ☐

Manure Storage Pond or Manure Treatment Lagoon

- Type of manure storage pond or manure treatment lagoon

☒ Earthen manure storage pond ☐ Earthen manure treatment lagoon

(Explain number of ponds/lagoons, type of liner system installed (plastic, recompacted soil, in-situ soil, etc))

- Is there twelve-inches of freeboard, plus the volume needed to contain the appropriate design storm, if the structure is subject to rainfall and runoff?

☒ Yes ☐ No ☐ N/A

- Are records maintained on storage capacity or manure volume?

☒ Yes ☐ No ☐ N/A

Egg Wash

Structure	Date	Maximum Operating Level	Current Manure Level
EW Cell #1	4/20/15	12.59 feet	11.75 feet
EW Cell #2	4/20/15	12.54 feet	11.75 feet

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?

☒ Yes ☐ No ☐ N/A

- Is there evidence in the operating record of weekly inspections of stormwater conveyances, diversion devices and devices channeling contaminated stormwater to the manure storage pond or manure treatment lagoon?

☒ Yes ☐ No ☐ N/A

- Do the inspections match the frequency in the manure management plan?

☒ Yes ☐ No ☐ N/A

- Are these regular inspections properly recorded in the operating record?

☒ Yes ☐ No ☐ N/A

- Is the level indicator(s) conspicuously located and properly functioning in the manure storage pond or manure treatment lagoon?

☒ Yes ☐ No ☐ N/A

- Is the vegetation near the manure storage pond or the manure treatment lagoon properly maintained?

☒ Yes ☐ No ☐ N/A

- Are the maintenance inspections for stormwater conveyances, runoff diversion structures, devices channeling contaminated stormwater, etc. properly recorded in the operating record?

☒ Yes ☐ No ☐ N/A

IV. MANURE MANAGEMENT

- Is the schedule for manure removal or manure residual removal outlined in the manure management plan?
Yes ☒ No ☐ N/A ☐
- List the number of acres utilized for land application. (Include both land that is owned and land that is leased).

Acres owned	40
Acres leased	
Other land	
Total acres	40

- Was manure applied on snow-covered or frozen ground?
* If so, was the application site approved for application?
Yes ☐ No ☒ N/A ☐
Yes ☐ No ☐ N/A ☒

The Layer manure is sold through D&U and under contract to M&W farms. At the present time only eggwash water is applied through the center pivot system. The stormwater is discharged through the Enhanced Treatment System (ETS) under an approved NPDES permit from the OEPA.

- Is manure distributed through Distribution and Utilization methods?
Yes ☒ No ☐ N/A ☐
- If Distribution and Utilization method of manure removal is used, are Appendices A, B, F and the most recent manure analysis given to the recipient of the manure?
Yes ☒ No ☐ N/A ☐
- Is the record for the Distribution and Utilization of manure maintained in the operation record?
Yes ☒ No ☐ N/A ☐

Soil Characteristics

- Are all soil analysis properly recorded in the operating record for the last five years?
☒ Yes ☐ No ☐ N/A
(The analysis records must be taken every three years).
- Are the soil samples representatives of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less?
☒ Yes ☐ No ☐ N/A
- Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test?
☒ Yes ☐ No ☐ N/A

* If so, list those fields.

Center Pivot. Pivot area is designated as follows with "P" Index:

Date	Field Number	Acres	P-Index Value	P-Index Category	Phosphorus
4-15-14	L3 Pivot A-S	19.56	20.14	Medium	190 ppm
4-15-14	L3 Pivot B-N	19.81	33.3	High	378 ppm

New soil samples taken April, 2014 and P index recalculated. These new samples show Pivot A-S field decreasing from 307ppm to 190 ppm; the Pivot B-N field increased from 317 ppm to 378 ppm. Neither of these results is consistent with the known agronomic practices. It is strongly recommended that new soil samples be taken in the spring or summer of 2015 before any eggwash application takes place.

Nutrient Budget

- Is commercial fertilizer used?

☒ Yes

☐ No

☐ N/A

* If so, list amount of commercial fertilizer used.

Comment: Nitrogen is applied to corn at the recommended agronomic rate.

- Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record?

☒ Yes

☐ No

☐ N/A

Manure Type	Year 2013		Year 2014		Year 2015 (4/15/15)	
	Tons/gals	acres	Tons/gals	acres	Tons/gals	acres
EW/SW	13,804,879 gallons	ETS				
EW/SW Center Pivot	4,251,492 gallons	40 acres				
Eggwash Only	n/a	n/a	7,763,376 gallons	40 acres	285,180 gallons	40 acres
MSB-North	400 tons	Cooperrider	11,632.5 tons	M&W	737.89 tons	M&W
	915 tons	M&W Farms	4,482.2 tons	M&W Storage	132.5 tons	M&W storage
	1,400 tons	Bob Car				
MSB-South	435 tons	Cooperrider	10,056.62 tons	M&W	1,718.5 tons	M&W
	10,934 tons	M&W Farms	2,285.43 tons	M&W Storage	1,295.22 tons	M&W storage
Totals (Layer Manure)	14,084 tons	-	28456.75 tons	-		

Cropping Schedules

- Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record?
☒ Yes ☐ No ☐ N/A
- Is the crop yield for each site properly recorded in the operating record?
☒ Yes ☐ No ☐ N/A
- Is the actual crop yield for each site properly recorded in the operating record?
☒ Yes ☐ No ☐ N/A

	2010	2011	2012	2013	2014
Crop	Soybeans	Corn	Soybeans	Corn	Soybean
Yield	59 bu/a	205 bu/a	64 bu/ac	181 bu/ac	65 bu/ac

Application Records

- If liquid manure is applied, are drain plugs being used?
☐ Yes ☒ No ☐ N/A
- If liquid manure is applied, are observations of subsurface drains properly recorded in the operating record?
☒ Yes ☐ No ☐ N/A
- Has the equipment for land application been inspected, maintained and properly recorded in the operating record?
☒ Yes ☐ No ☐ N/A

Latest documented land application of eggwash occurred on 4-18-15. The documented application rate per acre is 0.25", or roughly 6,750 gallons per acre. However, 285,180 gallons of eggwash were applied on 39.27 acres which is equivalent to 7,243.6 gallons per acre, or roughly .27" per acre. Requested Action: Please indicate the appropriate application rate, either in gallons per acre or Inches of Water per acre, on the Land Application Form for eggwash. Additionally please provide routine calibration records of Center Pivot.

- Are there records in the operating record on soil conditions at times of application, such as soil cracks?
☒ Yes ☐ No ☐ N/A
- Are application rates and nutrients applied in accordance with ODA rules for nitrogen and phosphorus?
☒ Yes ☐ No ☐ N/A
- Are liquid application rates based on the Available Water Capacity chart?
☒ Yes ☐ No ☐ N/A
- Are there records of general weather conditions, temperature and rainfall 24 hours before and after manure applications?
☒ Yes ☐ No ☐ N/A

- Are setbacks maintained and properly recorded in the operation record?
☒ Yes ☐ No ☐ N/A
- Is there evidence of documented use of vegetative cover to protect stream channels?
☒ Yes ☐ No ☐ N/A

V. INSECT AND RODENT CONTROL

- Is the insect and rodent control plan properly implemented by the owner or operator or manager?
 Yes ☒ No ☐ N/A ☐
- Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities?
 Yes ☒ No ☐ N/A ☐
- Are these inspections properly recorded in the operating record?
 Yes ☐ No ☒ N/A ☐

According to the Daily Barn Inspection Report for Layer Site #3 of the week starting on 4-12-15 and ending 4-18-15, several errors occurred. On Thursday 4-16-15, Barn #37 was documented as having Moderate Flies. No fly control action was documented within 24 hours. Also on 4-16-15, Barns #30, #32, and #36 were all documented as having Few flies, however fly control actions were recorded anyway. On Friday 4-17-15, The MSB-S was documented as having Moderate flies. No fly control action was documented within 24 hours. Also on 4-17-15, Barns 42B and MSB-N were documented as having Few flies however fly control actions were recorded anyway.

- Is proper maintenance of the watering system properly recorded in the operating record?
 Yes ☒ No ☐ N/A ☐
- Water leaks that were reported were repaired
- Are daily inspections of drinking water lines being made and recorded in the operating record?
 Yes ☒ No ☐ N/A ☐

VI. MORTALITY MANAGEMENT

- What type of mortality management does the facility have?
 Composting of mortalities now performed on-site in the north manure storage barns.
- Are there inspection records properly recorded in the operating record on mortality?
 Yes ☒ No ☐ N/A ☐
- Are Best Management Practices being utilized?
 Yes ☒ No ☐ N/A ☐

VII. OPERATING RECORD – GENERAL

- Are all operating records up-to-date and available for review by the inspector?
Yes ☒ No ☐ N/A ☐
- Is a copy of the RCC, PTI, PTO and/or NPDES permit with the operating record or located in the site office?
Yes ☒ No ☐ N/A ☐
- Have the operating records been retained by the owner or operator for a minimum of five years?
Yes ☒ No ☐ N/A ☐
- Since the last inspection, have any operational changes been made at the facility?
Yes ☒ No ☐ N/A ☐

Trillium has gone to a one age manure concept in the MSBs to try and prevent smoldering of the manure. This means manure in each MSB is spread across the entire barn as uniform as possible by alternating sides each day.

VIII. VISUAL INSPECTIONS AND OUTSIDE INFORMATION

Water Quality Impacts

- Is there evidence of actual offsite discharge? Yes ☐ No ☒ N/A ☐
- Are there areas of concern for water quality impacts? Yes ☐ No ☒ N/A ☐
- Is the water well location maintained in a proper manner to avoid contamination? Yes ☒ No ☐ N/A ☐

Facility upkeep and general appearance:

Above Average ☐ Average ☒
Below Average ☐ Poor ☐

4-21-15

Barn	Flies	Larvae	Comments
#29	F	F	Enriched Cages, no partitions. Few flies outside
#30	F	F	Enriched Cages, no partitions. Few flies outside
#31	F	F	Enriched Cages, no partitions. Few flies outside
#32	F	F	Enriched Cages, no partitions. Few flies outside
#33	F	F	Enriched Cages, no partitions. Few flies outside
#34	M	M	Build-up of feathers and debris between belts. Pupae present in areas where feathers and debris have built up. Birds are molting. Few flies outside
#35	F	F	Enriched Cages, no partitions. Few flies outside.
#36	M	M	Build-up of feathers and debris between belts but not nearly as bad as Barn #34. Some Pupae are present, birds are molting, Few flies outside
#37	F	F	Birds are molting, Few flies outside.

#38	F	F	Standard Cages, Few flies outside.
#39	F	F	Standard Cages, Few flies outside.
#40	F	F-M	Standard Cages. Cage area in good shape. The manure belt taking manure from the house to the MSB had a few more larvae than some of the other houses. Few flies outside
#41	F	F	Standard Cages, Few flies outside. Feeder belt was overflowing with feed on the corners
#42	F	F	Standard Cages, Few flies outside.
#41A	M	F-M	Scraper barn, Build-up of manure on scraper boards. Brown birds, Few flies outside
#42B	M	F-M	Scraper barn, Build-up of manure on scraper boards. Brown Birds, Few flies outside
MSB-N	F	F	Manure is dry and barn is full. L-8' R-14'. Dead flies at entrance.
MSB-S	M	F-M	Manure is excessively wet. Manure is actively being removed. Presence of few living flies but a moderate amount of dead flies at the entrance of the barn at the time of inspection.

Describe the upkeep and general appearance of the following

	Above Average	Average	Below Average	Poor	Comments
Dikes and Diversion Ditches		x			
Berms		x			
Embankments	x				stoned
Pipe Runs		x			
Grassed Waterways	x				
Vegetative Cover		x			
Settling Basins					n/a
Feed System		x			
Storage Areas			x		
Watering System	x				
Walkways or Walk Areas Inside Building		x			
Walkways or Walk Areas Outside Building	x				
Ventilation Systems, i.e. Fans	x				
Others			x		Manure Belts, specifically in Barn #34 and #36.

VIII. SUMMARY

Were the results of the inspection discussed with the owner, operator, manager, and representative or livestock manager?

Yes ☒ No ☐ N/A ☐

Required Actions:

- Latest documented land application of eggwash occurred on 4-18-15. The documented application rate per acre is 0.25", or roughly 6,750 gallons per acre. However, 285,180 gallons of eggwash were applied on 39.27 acres which is equivalent to 7,243.6 gallons per acre, or roughly .27" per acre. Requested Action: Please indicate the appropriate application rate, either in gallons per acre or Inches of Water per acre, on the Land Application Form for eggwash. Additionally, calibration records of pivot irrigation system must be made available during next scheduled ODA-DLEP inspection.
- According to the Daily Barn Inspection Report for Layer Site #3 of the week starting on 4-12-15 and ending 4-18-15 several errors occurred. On Thursday 4-16-15, Barn #37 was documented as having Moderate Flies. No fly control action was documented within 24 hours. Also on 4-16-15, Barns #30, #32, and #36 were all documented as having Few flies however fly control actions were recorded anyway. On Friday 4-17-15, The MSB-S was documented as having Moderate flies. No fly control action was documented within 24 hours. Also on 4-17-15, Barns 42B and MSB-N were documented as having Few flies however fly control actions were recorded anyway. This has resulted in ODA-DLEP issuing a Notice of Deficiency Resulting in Noncompliance (NOD) and corrective actions will be required to reach compliance. The NOD was issued on 5-8-15 and will include the required corrective actions.
- ODA-DLEP has determined that the manure in MSB-S to be excessive in moisture and conducive to house fly breeding. This has resulted in ODA-DLEP issuing an NOD and corrective actions will be required to reach compliance. The NOD was issued on 5-8-15 and will include the required corrective actions.
- ODA-DLEP has determined that layer houses' cleanliness was poor and contributed to a fly problem at the MSBs. This has resulted in ODA DLEP issuing an NOD and corrective actions will be required to reach compliance. The NOD was issued on 5-8-15 and will include the required corrective actions.
- An updated manure analysis of the North Manure storage barn must be provided to the ODA-DLEP on or before May 29th, 2015.

Reminder Actions:

- Groundwater tests are due no later than November 2015.

Recommended Actions:

- The required sampling of eggwash should be expressed in lbs/1000 gallons for Ammonia, Organic N, Phosphate, and Potash.
- It is strongly recommended that soil samples be taken for the eggwash field spring or summer of 2015. The April 2014 soil analysis does not correlate with the agronomic practices, or nutrients applied, for a phosphorus draw down.
- The ODA-DLEP recommends monitoring the One-Age manure concept very closely and support this operational change through routine moisture analysis and more vigorous temperature record keeping.

"I certify that this information was reviewed with the owner, operator, manager, or representative of the facility."

The records portion of this inspection was completed with Sheryl Logue and David Gatten.

Those present during the facility inspection were: Ramchand Almoro, Tabitha Smith, Dave Gatten, Maxcy Nolan, Bob Bellard, Jim Young, and Samuel Mullins



5/20/2015

Signature of Inspector

Date

Cc: J.T. Dean – Trillium Farms
Doug Mack – Trillium Farms
Dave Hasemann – Trillium Farms
Bob Bellard – Trillium Farms
Ramchand Almoro – Trillium Farms
Sheryl Logue – Trillium Farms
Dave Gatten – Trillium Farms
Tabitha Smith – Trillium Farms
Licking County SWCD
Maxcy Nolan – Professional Entomologist



Governor John R. Kasich • Lt. Governor Mary Taylor
Director David T. Daniels

Department of Agriculture

Division of Livestock Environmental Permitting
A.B. Graham Building
8995 East Main Street, Reynoldsburg, OH 43068
Phone: 614-387-0470 • Fax: 614-728-6335
www.agri.ohio.gov • lepp@agri.ohio.gov

Inspector Jim Young and Sam Mullins
Inspection Start Time 7:45 AM 4-21-15

Date of Inspection 4/21/2015

Type of Inspection

1st Routine ☒ 3rd Routine ☐
2nd Routine ☐ Other ☐

Facility

Owner\Operator

Name	Croton Layer #4			Name	Ohio Fresh Eggs, LLC		
Address	11492 Westly Chapel Road			Address	10513 Croton Road		
City	Croton	Ohio	Zip 43013	City	Croton	Ohio	43013
Phone	614-832-2215 (Amber Vannoy, Production Manager)			Phone	740-817-0279 (Ramchand Almoro, Director of Operations)		
Email	avannoy@trilliumfarmsohio.com			Email	ralmoro@trilliumfarmsohio.com		

Name	Trillium Farm Holdings, LLC		
Address	241 St. Andrews Way		
City	Sioux Center	Iowa	51250
Phone			
Email			

Contact Person

Name	David Gatten	Cell:	614-745-5588
Email:	dgatten@trilliumfarmsohio.com	Regulatory Compliance Officer	
Name	Tabi Smith	Cell:	614-600-0482
Email:	tsmith@trilliumfarmsohio.com	Internal Farm Compliance Officer	
Name	Sheryl Logue	Cell:	614-745-7326
Email:	slogue@trilliumfarmsohio.com	Compliance Manager	
Name	Dave Hasemann	Cell:	614-832-2564
Email:	slogue@trilliumfarmsohio.com	Senior Production Manager	

Permit Information

Permit Number	45-135-PTO-002	Expiration Date	4-11-2017
Permit Modification		Effective Date	
Major Operational Change		Effective Date	

Certified Livestock Manager

Name	Certificate Number	Expiration Date	CRS / Date
David Gatten	152	2017	10
Phil Budd	217	2014	10
Dave Haseman	334	2015	0
Sheryl Logue	335	2015	10
Al McDougal	355	2015	0
Tabitha Smith	377	2015	10
Ramchad Almoro	414	2017	0
Scott Michalak	353	2015	10

Bio-security Information:

Inspector followed facility or industry bio-security plan Yes ☒ No ☐ N/A ☐
 (whichever is more stringent)

No exposure to poultry within 48 hours. Boots and biosecurity suit worn.

I. FACILITY OPERATION INFORMATION

Number and Type of Animals

Animal Type	Existing Number of Animals (leave blank if facility is new)	Maximum Number of Animals (for new or expanding facilities)
Slaughter and feeder cattle		
Dairy heifers		
Mature cows (milked or dry)		
Swine over 55 pounds		
Swine under 55 pounds		
Laying hens	2,213,412	2,314,384
Broilers		
Pullets		
Other:		

Number of Employees	Trillium - 25
Type of Feed System	dry

II. WATER SYSTEM

Water Supply Sources

- Is there a well located at the facility?

Yes ☒ No ☐ N/A ☐

How Many? 5

- Is water treatment used?

Yes ☐ No ☒ N/A ☐

If so, where does back flush go?

Drinking Groundwater Sampling

- Are records of the groundwater sampling analysis properly recorded in the operation record?

Yes ☒ No ☐ N/A ☐

List the dates of the last samples taken.

Groundwater Sample Results

Date	Nitrate	TCR
4-18-2008	<0.1 mg/l	Negative
1-22-2009	<0.1 mg/l	Negative
1-7-2010	0.11 mg/l	Negative
1-13-2011	0.176 mg/l	Negative
1-21-2013	0.18 mg/l	Negative
1-21-2014	<0.1 mg/l	Negative
11-19-2014	<0.1 mg/l	Negative

Groundwater Monitoring

- Are groundwater monitoring wells required?

Yes ☐ No ☒ N/A ☐

If yes, list results.

Agricultural Drainage Well

- Is there indication of an agricultural drainage well (Class V well) on the property?

Yes ☐ No ☒ N/A ☐

If yes, is the agricultural drainage well likely to have runoff?

Yes ☐ No ☐ N/A ☒

Other Waste, Chemicals and Contaminants

- Is there a sanitary permit for this facility?

Yes ☒ No ☐ N/A ☐

- If yes, does the sanitary go to the manure storage and treatment facility?

Yes ☐ No ☒ N/A ☐

- If yes, is it permitted to do so?

Yes ☐ No ☐ N/A ☒

- Are all other waste, including medical waste, cleaning solutions, pesticides, fertilizers, herbicides and other contaminants stored/handled in a manner that will not discharge into a manure storage or treatment facility? Yes ☒ No ☐ N/A ☐
- If no, provide brief explanation and if the discharge into the manure storage or treatment facility is permitted/allowed.

III. MANURE STORAGE AND TREATMENT FACILITIES

Type of Manure

(check all that apply)

Liquid ☒ Solid ☒

- Annual manure analysis on file?

Yes ☒ No ☐ N/A ☐

Manure Sample Results

Sample	Date	Moisture %	NH ₄ lb/T	Org. N lb/T	P ₂ O ₅ lb/T	K ₂ O lb/T
MSB-E	4-10-14	39.08	3.22	87.48	43.08	36.86
MSB-W	4-10-14	43.51	4344	79.54	36.44	36.14
MSB-E	7-30-14	35.11	-	-	-	-
MSB-W	7-30-14	49.12	-	-	-	-
MSB-E	3-4-15	49.30	-	-	-	-
MSV-W	3-4-15	44.60	-	-	-	-
MSB-E	4-13-15	37.35	8.84	52.65	47.18	43.91
MSB-W	4-13-15	35.99	6.81	62.8	46.68	40.0

Moisture content is required to be taken monthly and the nutrients annually.

Stormwater Sampling

Date	Total Phosphorus (mg/l)	Ammonia (mg/l)	Nitrate (mg/l)	P ₂ O ₅ (lb/1000 gal)
1-13-11	<0.0117 (lb/1000 gal)	<0.837 (lb/1000 gal)	<0.8370 (lb/1000 gal)	1.6e-6
6-22-11	0.333	0.87	2.9	-
8-25-11	0.5777	0.83	0.54	-
1-11-12	<0.2	<0.3	0.27	-
4-20-12	<0.415	<0.3	0.25	-
9-12-12	0.90	14.56	0.1	-
1-21-13	<0.2	0.85	(TKN) 3.74	-
5-15-13	0.79	1.58	0.1	-
9-17-13	0.6	0.3	0.1	-
1-14-14	<0.0083 (lb/1000 gal)	<0.8345 (lb/1000 gal)	-	-

All Stormwater is now being processed through Enhanced Treatment Station approved and regulated by OEPA.

Egg Wash Sampling

Date	% Total Solids	Ammonia N (lb/1000 gal)	Organic N (lb/1000 gal)	P ₂ O ₅ (lb/1000 gal)	K ₂ O (lb/1000 gal)
10-23-14	0.3629	1.04	0.45	0.49	0.53

The eggwash nutrients were recalculated for this report by ODA: Brookside Lab #: UE1023039 dated 10-23-14

- **Type of manure storage or treatment facility:**

(Check all that apply)

Fabricated Structures

☒ **Manure storage pond** ☒

Combination

☐ **Manure treatment lagoon** ☐

Fabricated Structure

- **Type of fabricated structure:**

(Check all that apply)

Stacking pad/bunker/etc

☐ **Concrete block or stave pit** ☐

Deep pit

☐ **Above ground tank (metal/concrete/other)** ☐

High-rise

☐ **Manure storage barn (for belt-battery, etc)** ☒

Compacted earthen floor concrete pit

☐ **Other** ☐

- **Is there a six-inch minimum of freeboard for all storage structures containing liquid manure or subject to precipitation/runoff?**

Yes ☒ No ☐ N/A ☒

- **Are records maintained on storage capacity or manure volume?**

Yes ☒ No ☐ N/A ☐

Manure Storage Barns

Structure	Date	MOL	Current Level
MSB-W	4/20/15	24 feet	L-17' R-Clean
MSB-E	4/20/15	24 feet	L- Clean R-16'

Unlimited renewables is no longer involved and equipment is in the process of being removed.

- **Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?**

Yes ☒ No ☐ N/A ☐

- **Do the inspections match the frequency in the manure management plan?**

Yes ☒ No ☐ N/A ☐

Monthly inspections documented.

- **Are these regular inspections properly recorded in the operating record?**

Yes ☒ No ☐ N/A ☐

Manure Storage Pond or Manure Treatment Lagoon

- Type of manure storage pond or manure treatment lagoon

☒ Earthen manure storage pond ☐ Earthen manure treatment lagoon

(Explain number of ponds/lagoons, type of liner system installed (plastic, recompacted soil, in-situ soil, etc))

- Is there twelve-inches of freeboard, plus the volume needed to contain the appropriate design storm, if the structure is subject to rainfall and runoff?

☒ Yes ☐ No ☐ N/A

- Are records maintained on storage capacity or manure volume?

☒ Yes ☐ No ☐ N/A

Egg Wash

Structure	Date	Maximum Operating Level	Current Manure Level
EW Cell #1	4/20/15	13.16 feet	12.0 feet
EW Cell #2	4/20/15	11.61 feet	10.25 feet

- Is there evidence in the operating record of regular inspections of the manure storage or treatment facilities for erosion, leakage, animal damage or discharge?

☒ Yes ☐ No ☐ N/A

- Is there evidence in the operating record of weekly inspections of stormwater conveyances, diversion devices and devices channeling contaminated stormwater to the manure storage pond or manure treatment lagoon?

☒ Yes ☐ No ☐ N/A

- Do the inspections match the frequency in the manure management plan?

☒ Yes ☐ No ☐ N/A

- Are these regular inspections properly recorded in the operating record?

☒ Yes ☐ No ☐ N/A

- Is the level indicator(s) conspicuously located and properly functioning in the manure storage pond or manure treatment lagoon?

☒ Yes ☐ No ☐ N/A

- Is the vegetation near the manure storage pond or the manure treatment lagoon properly maintained?

☒ Yes ☐ No ☐ N/A

- Are the maintenance inspections for stormwater conveyances, runoff diversion structures, devices channeling contaminated stormwater, etc. properly recorded in the operating record?

☒ Yes ☐ No ☐ N/A

IV. MANURE MANAGEMENT

- Is the schedule for manure removal or manure residual removal outlined in the manure management plan?
Yes ☒ No ☐ N/A ☐

- List the number of acres utilized for land application. (Include both land that is owned and land that is leased).

Acres owned	
Acres leased	
Other land	
Total acres	37

- Was manure applied on snow-covered or frozen ground?
Yes ☐ No ☒ N/A ☐

* If so, was the application site approved for application?

Yes ☐ No ☐ N/A ☒

- Is manure distributed through Distribution and Utilization methods?
Yes ☒ No ☐ N/A ☐

The Layer manure is sold through D&U and under contract to M&W farms. At the present time, only eggwash water is applied through the center pivot system. The stormwater is discharged through the Enhanced Treatment System (ETS) under an approved NPDES permit from the OEPA.

- If Distribution and Utilization method of manure removal is used, are Appendices A, B, F and the most recent manure analysis given to the recipient of the manure?

Yes ☒ No ☐ N/A ☐

- Is the record for the Distribution and Utilization of manure maintained in the operation record?

Yes ☒ No ☐ N/A ☐

Soil Characteristics

- Are all soil analysis properly recorded in the operating record for the last five years?
☒ Yes ☐ No ☐ N/A

(The analysis records must be taken every three years).

- Are the soil samples representatives of a land application site with one composite soil sample representing no more than twenty-five acres or one composite soil sample for each land application site, whichever is less?

☒ Yes ☐ No ☐ N/A

- Do any fields exceed 150 ppm of Phosphorous on the BrayP1 test?

☒ Yes ☐ No ☐ N/A

* If so, list those fields.

Center Pivot. Pivot area is designated as follows with "P" Index:

Date	Field Number	Acres	P-Index Value	P-Index Category	Phosphorous
4-15-14	L4 Pivot A-W	18.49	25.81	Medium	271 ppm
4-15-14	L3 Pivot B-E	18.34	27.27	Medium	291 ppm

New soil samples taken April, 2014 and P index recalculated. Both soil P levels and the P-Index values have declined slightly since 2011. Fields are only for eggwash.

Nutrient Budget

- Is commercial fertilizer used?

☐ Yes

☒ No

☐ N/A

* If so, list amount of commercial fertilizer used.

- Are the date, rate, quantity and method of application of the nutrient, and/or form and source of manure, commercial fertilizer, and/or other organic by-products properly recorded in the operating record?

☒ Yes

☐ No

☐ N/A

Manure Type	Year 2013		Year 2014		Year 2015	
	Tons/gals	acres	Tons/gals	acres	Tons/gals	acres
Eggwash	11,410,552 gallons	37	7,942,536 gallons	37	310,380	37
MSB-East	3,803 tons	Piper	9,198.9 tons	M&W	3,685.9 tons	M&W
	780 tons	Blanton	457.9 tons	M&W Storage Carr Piper		
	9,073 tons	M&W	460 tons			
	2,332 tons	Transfer to Layer 3 MSB-S	5,917 tons			
MSB-West	2,003 tons	Piper	7,722.2 tons	M&W	1,882 tons	M&W
	1,714 tons	M&W	51.8 tons	M&W Storage Carr Piper	3,402 tons	Piper
	4,165 tons	Bachman	5,380 tons			
	9,180 tons	Unlimited Renewables	710 tons			
Totals (Layer Manure)	33,050 tons		29,897.8 tons			

Truck wash effluent has not been installed for discharge into the eggwash pond.

Cropping Schedules

- Is the cropping schedule for each site, including past year and present year, properly recorded in the operating record?
☒ Yes ☐ No ☐ N/A
- Is the crop yield for each site properly recorded in the operating record?
☒ Yes ☐ No ☐ N/A
- Is the actual crop yield for each site properly recorded in the operating record?
☒ Yes ☐ No ☐ N/A

	2011	2012	2013	2014	2015
Crop	Soybeans	Corn	Soybeans	Corn	Soybean
Yield	42 bu/ac	109 bu/ac	60 bu/ac	195 bu/ac	-

Cropping schedule is only for Eggwash

Application Records

- If liquid manure is applied, are drain plugs being used?
☐ Yes ☒ No ☐ N/A
- If liquid manure is applied, are observations of subsurface drains properly recorded in the operating record?
☒ Yes ☐ No ☐ N/A
- Has the equipment for land application been inspected, maintained and properly recorded in the operating record?
☒ Yes ☐ No ☐ N/A

Latest documented land application of eggwash occurred on 4-18-15. The documented application rate per acre is 0.25", or roughly 6,750 gallons per acre. However, 290,220 gallons of eggwash were applied on 36.8 acres which is equivalent to 7,886.4 gallons per acre, or roughly .29" per acre. Requested Action: Please indicate the appropriate application rate, either in gallons per acre or Inches of Water per acre, on the Land Application Form for eggwash. Additionally please provide routine calibration records of Center Pivot.

- Are there records in the operating record on soil conditions at times of application, such as soil cracks?
☒ Yes ☐ No ☐ N/A
- Are application rates and nutrients applied in accordance with ODA rules for nitrogen and phosphorus?
☒ Yes ☐ No ☐ N/A
- Are liquid application rates based on the Available Water Capacity chart?
☒ Yes ☐ No ☐ N/A
- Are there records of general weather conditions, temperature and rainfall 24 hours before and after manure applications?
☒ Yes ☐ No ☐ N/A

- Are setbacks maintained and properly recorded in the operation record?
☒ Yes ☐ No ☐ N/A
- Is there evidence of documented use of vegetative cover to protect stream channels?
☒ Yes ☐ No ☐ N/A

V. INSECT AND RODENT CONTROL

- Is the insect and rodent control plan properly implemented by the owner or operator or manager?
 Yes ☒ No ☐ N/A ☐
- Does the insect and rodent control plan describe the inspection frequency to examine pest's populations and pest activities?
 Yes ☒ No ☐ N/A ☐
- Are these inspections properly recorded in the operating record?
 Yes ☒ No ☐ N/A ☐
- All fly control logs coincide with each barn's inspection record
- Is proper maintenance of the watering system properly recorded in the operating record?
 Yes ☒ No ☐ N/A ☐
- Water leaks that were reported were repaired
- Are daily inspections of drinking water lines being made and recorded in the operating record?
 Yes ☒ No ☐ N/A ☐

VI. MORTALITY MANAGEMENT

- What type of mortality management does the facility have?
 Composting of mortalities now performed on-site in manure storage barns.
- Are there inspection records properly recorded in the operating record on mortality?
 Yes ☒ No ☐ N/A ☐
- Are Best Management Practices being utilized?
 Yes ☒ No ☐ N/A ☐

VII. OPERATING RECORD – GENERAL

- Are all operating records up-to-date and available for review by the inspector?
Yes ☒ No ☐ N/A ☐
- Is a copy of the RCC, PTI, PTO and/or NPDES permit with the operating record or located in the site office?
Yes ☒ No ☐ N/A ☐
- Have the operating records been retained by the owner or operator for a minimum of five years?
Yes ☒ No ☐ N/A ☐
- Since the last inspection, have any operational changes been made at the facility?
Yes ☒ No ☐ N/A ☐

Unlimited Renewables is no longer processing manure in MSB-W and equipment is in the process of being removed.

Trillium has gone to a one age manure concept in the MSBs to try and prevent smoldering of the manure. This means manure in each MSB is spread across the entire barn as uniform as possible by alternating sides each day.

VIII. VISUAL INSPECTIONS AND OUTSIDE INFORMATION

Water Quality Impacts

- Is there evidence of actual offsite discharge? Yes ☐ No ☒ N/A ☐
- Are there areas of concern for water quality impacts? Yes ☐ No ☒ N/A ☐
- Is the water well location maintained in a proper manner to avoid contamination? Yes ☒ No ☐ N/A ☐

Facility upkeep and general appearance:

Above Average ☐ Average ☒
Below Average ☐ Poor ☐

4-21-15

Barn	Flies	Larvae	Comments
#43	F	F	Good Condition, Few flies outside
#44	F	F	Good Condition, Few flies outside
#45	F	F	Good Condition, Few flies outside, moist feed at front end of barn
#46	F	F	Good Condition, Few flies outside
#47	F	F	Good Condition, Few flies outside
#48	F	F	Good Condition, Few flies outside
#49	F	F	Good Condition, Few flies outside
#50	F	F	Good Condition, Few flies outside

#51	F	F	Good Condition, Few flies outside, moist feed at front end of barn
#52	F	F	Good Condition, Few flies outside
#53	F	F	Good Condition, Few flies outside
#54	F	F	Good Condition, Few flies outside
#55	F	F	Good Condition, Few flies outside
#56	F	F	Good Condition, Few flies outside
#55A	F	F	Good Condition, Few flies outside, scraper barn
#56B	F	F	Good Condition, Few flies outside, scraper barn
MSB-E	F	F	Manure is dry, only one bay with manure L-17'
MSB-W	F	F	Manure is dry, only one bay with manure R-16'

In the even numbered barns (44-56) the manure belt transferring manure from the houses to the MSB was not functional. The problem was resolved on 4-21-15.

Describe the upkeep and general appearance of the following

	Above Average	Average	Below Average	Poor	Comments
Dikes and Diversion Ditches		x			
Berms		x			
Embankments	x				stoned
Pipe Runs		x			
Grassed Waterways	x				
Vegetative Cover		x			
Settling Basins					n/a
Feed System		x			
Storage Areas	x				
Watering System		x			
Walkways or Walk Areas Inside Building	x				
Walkways or Walk Areas Outside Building	x				
Ventilation Systems, i.e. Fans	x				
Others					

VIII. SUMMARY

Were the results of the inspection discussed with the owner, operator, manager, and representative or livestock manager? Yes ☒ No ☐ N/A ☐

Required Actions:

- The latest documented land application of eggwash occurred on 4-18-15. The documented application rate per acre is 0.25", or roughly 6,750 gallons per acre. However, 290,220 gallons of eggwash were applied on 36.8 acres which is equivalent to 7,886.4 gallons per acre, or roughly .29" per acre. Requested Action: Please indicate the appropriate application rate, either in gallons per acre or Inches of Water per acre, on the Land Application Form for eggwash. Additionally, calibration records of pivot irrigation system must be made available during next scheduled ODA-DLEP inspection.

Reminder Actions:

- Groundwater tests are due no later than November 2015.
- Please inform ODA-DLEP when Truck wash effluent will be discharged into the eggwash effluent.

Recommended Actions:

- The required sampling of eggwash should be expressed in lbs/1000 gallons for Ammonia, Organic N, Phosphate, and Potash.

- The ODA-DLEP recommends monitoring the One-Age manure concept very closely and support this operational change through routine moisture analysis and more vigorous temperature record keeping.

"I certify that this information was reviewed with the owner, operator, manager, or representative of the facility."

The records portion of this inspection was completed with Sheryl Logue and David Gatten.

Those present during the facility inspection were: Ramchand Almore, Tabitha Smith, Dave Gatten, Maxcy Nolan, Jim Young, and Samuel Mullins



5/20/2015

Signature of Inspector

Date

Cc: J.T. Dean – Trillium Farms
Doug Mack – Trillium Farms
Dave Hasemann – Trillium Farms
Amber Vannoy – Trillium Farms
Ramchand Almore – Trillium Farms
Sheryl Logue – Trillium Farms
Dave Gatten – Trillium Farms
Tabitha Smith – Trillium Farms
Licking County SWCD
Maxcy Nolan – Professional Entomologist